



Rondout Creek Water Quality Assessment

City of Kingston

December 2014



Rondout Creek Water Quality Assessment

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- A Receiving Water Quality Sampling PlanFor Post Construction Monitoring
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Executive Summary

The City of Kingston (City) retained Malcolm Pirnie, Inc., the Water Division of ARCADIS (ARCADIS), to assist with the development and implementation of its Long Term Control Plan (LTCP) to comply with the United States Environmental Protection Agency (US EPA) Combined Sewer Overflow (CSO) Control Policy. The City has four permitted CSO discharges to the Rondout Creek. CSOs are point sources subject to State Pollution Discharge Elimination System (SPDES) permit requirements, including both technology-based and water quality-based requirements of the Clean Water Act.

As part of approved LTCP, the City conducted Post Construction Monitoring of the Rondout Creek during the 2014 recreational season. Post Construction Monitoring is the method used to assess whether the steps taken to control discharges comply with the USEPA CSO Control Policy and whether the receiving body meets or is not precluded from meeting Water Quality Standards (WQS).

Applicable WQS standards that were considered for Post Construction Monitoring include:

- The fecal coliform standard for both Class B and C designations of 200 colonyforming units per 100 milliliter (CFU/100 mL) geometric mean (geomean), of no less than five samples per time period;
- The total suspended solids (TSS) and settleable solids standard of no wastes that will cause deposition or impair the water for their best usages.
- The dissolved oxygen (DO) standard for non-trout waters of 5.0 milligram per milliliter (mg/L, minimum daily average) and 4.0 mg/L (minimum instantaneous), and:
- The temperature standard for non-trout waters at the surface of 90° Fahrenheit (F) (instantaneous maximum).

Based on the 5 month sampling and analysis period between May 2014 and September 2014, ARCADIS has concluded that the Rondout Creek is not impaired nor precluded from meeting WQS as set forth by the New York State Department of Conservation (NYS DEC). During that time period a total of approximately 175 samples were collected and analyzed for fecal coliform, TSS, suspended solids, DO and temperature each. Five separate locations within the receiving body were



routinely sampled to develop an accurate assessment of the water quality. One sampling point up stream of the Eddyville Dam was selected to assess the potential for impacts from upstream point and non-point sources.

The City also documented the occurrence of CSOs during the Post Construction Monitoring program by installing flow meters on the overflows. This recreational season was drier than a typically year, with no wet weather events reported in August and September that met the sampling criteria, however, the City recorded the CSO volumes reported in Table EX-1 for wet weather events in June (July 2), June and September (October 8).

Table EX-1 Wet Weather Combined Sewer Overflow Volumes

Combined Sewer Overflow Volume (Million Gallons)

	5/16/2014	7/2/2014	7/27/2014	10/8/2014
	Flow			
Hasbrouck	observed*	2.16	0.126	1.07
Broadway	NA*	0.19	0.011	0.08
Hunter	NA*	0.65	0	0.11
Wilbur	NA*	N/A*	0	0.095
Total		3.00	0.14	1.36

^{*} Denotes no volumetric flow data available for this location

Figure EX-1 presents the monthly geomeans for the seven sampling locations within the Rondout Creek for fecal coliform. All geomeans showed the Rondout Creek in compliance with the 200 CFU/100mL WQS and typically less than 60 CFU/100mL.



120 100 Fecal Coliform (CFU/100mL) May June ■ July August September 40 20 Site 7 Site 1 Site 2 Site 3 Site 6 Site 4 Site 5 Downstream

Figure EX-1 Monthly Geometric Mean for Fecal Coliform

Tables EX-2 and EX-3 show the results for settable solids and TSS. Settleable solids monthly arithmetic means were typically calculated to be 0.09 milliliter per Liter (mL/L), which is very low and will not impair the receiving body. TSS monthly arithmetic means were calculated to be between 1.8 mg/L and 9.2 mg/L.



Table EX-2 Settable Solids Monthly Arithmetic Mean

_	May	June	July	August	September
Site 1 (mL/L)	0.09	0.09	0.09	0.09	0.09
Site 2 (mL/L)	0.09	0.09	0.09	0.09	0.09
Site 3 (mL/L)	0.09	0.09	0.09	0.09	0.09
Site 4 (mL/L)	0.09	0.09	0.09	0.09	0.09
Site 5 (mL/L)	0.09	0.09	0.09	0.09	0.09
Site 6 (mL/L)	0.09	0.09	0.09	0.09	0.09
Site 7 (mL/L)	0.09	0.09	0.09	0.09	0.17

Table EX-3 TSS Monthly Arithmetic Mean

	May	June	July	August	September
Site 1 (mg/L) 4.4 6.4 2.3		3.3	3.0		
Site 2 (mg/L)	5.3	5.4	3.4	2.6	3.4
Site 3 (mg/L)	3.0	4.8	3.4	3.2	4.6
Site 4 (mg/L)	9.2	6.0	4.6	3.8	5.3
Site 5 (mg/L)	7.6	6.0	4.2	6.0	8.0
Site 6 (mg/L)	3.8	4.2	3.3	4.3	2.8
Site 7 (mg/L)	4.4	5.3	1.9	1.8	2.8

At no time was the DO lower than 4.0 mg/L nor the temperature above 90° F. All of the data collected showed that the CSOs are not precluding the Rondout Creek from meeting the WQS as set forth by the NYS DEC.



1. Introduction

1.1 Project Background

The City of Kingston (City) has four combined sewer overflows (CSOs) that discharge to the Rondout Creek (Figure 1-1). CSOs are point sources subject to SPDES permit requirements including both technology-based and water quality-based requirements of the Clean Water Act.

The City was required as part of their Long Term Control Plan (LTCP) to perform Post Construction Monitoring of the Rondout Creek. Post Construction Monitoring as described in this section, is the method used to assess whether the steps taken to control discharges from the Combined Sewer System comply with the United States Environmental Protection Agency (USEPA) CSO Control Policy and, further, whether in complying with the Policy the Rondout Creek meets or is not precluded from meeting Water Quality Standards (WQS). The Plan For Post Construction Monitoring (Sampling Plan, Appendix A) updated the Monitoring and Modeling Plan approved by New York State Department of Environmental Conservation (NYS DEC) in 2007 and was used by the City of Kingston to collect the sampling data that is the basis for this CSO LTCP.

The Sampling Plan described the approach that was taken to characterize the receiving water quality of the Rondout Creek where the City's CSOs discharge. The intent of the receiving water sampling effort was to characterize the water quality during both dry and wet weather events, to assess the background pollution levels, to assess if the Rondout Creek meets WQS and to assess impacts of implementing the City's LTCP.

1.2 Water Quality Standards

The State of New York has promulgated standards for water quality in Part 703 based on the designated class of the receiving water. The tidal portion of the Rondout Creek at Kingston is designated a Class C receiving water body. Six of the seven sampling locations are located in this section of the Rondout. The Rondout changes to a Class B receiving water body upstream of the Eddyville Dam.

Applicable NYS DEC standards that were considered for this study include:

 The fecal coliform standard for both Class B and C designations states that the geometric mean (geomean) of no less than five examinations (samples) shall



be less than 200 colony-forming units per 100 milliliter (CFU/100 mL). The standard does not differentiate between wet and dry-weather sampling. There is no specific single sample maximum criterion applicable to these receiving waters. This Report will compare geomeans to these criteria as is appropriate, but will also indicate the relative difference between individual samples and these geomean criteria as a point of reference for several sets of data.

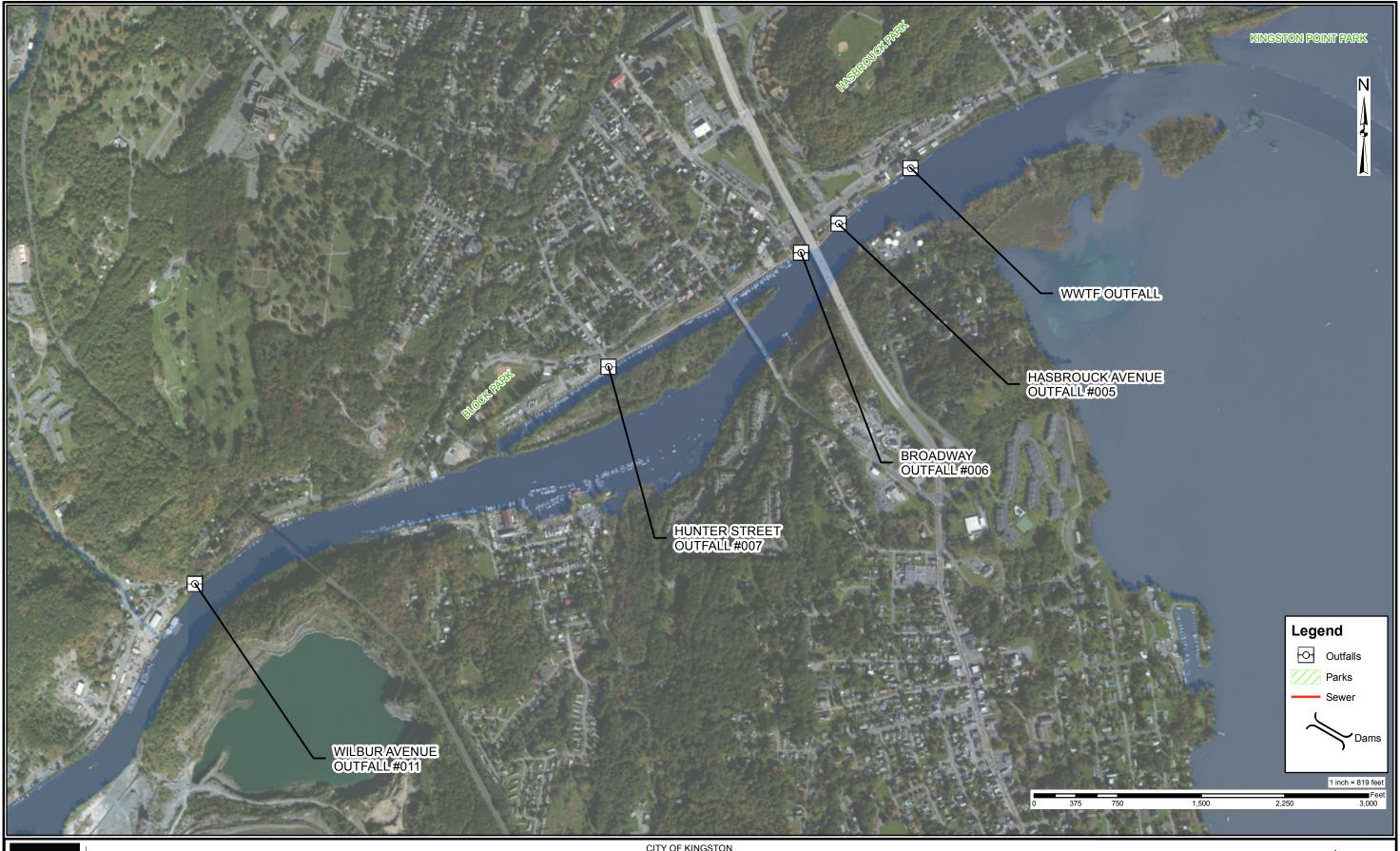
- The applicable standard for both total suspended solids (TSS) and settleable solids states that "None from sewage, industrial wastes, or other wastes that will cause deposition or impair the water for their best usages."
- The applicable dissolved oxygen (DO) standard "For non-trout waters, the minimum daily average shall not be less than 5.0 mg/L, and at no time shall the DO concentration be less than 4.0 milligram per liter (mg/L)."
- In non-trout waters the water temperature at the surface of a stream shall not be raised to more than 90 degrees Fahrenheit at any point.

1.3 Methodology and Scope

This Report briefly describes the locations, equipment, methodologies, and data management protocols that were used by the City's Sampling Team to gather water quality data for the post construction water quality sampling and summarizes the results of that data collection effort.

Water quality data was collected during dry and wet weather to examine the potential effects of CSOs. Together with the CSO flow monitoring data, project-modeling tools, and historical data, the water quality sampling results will assist the City with assessing the impacts of CSOs, and access the post construction conditions relative to the water quality standards.

A minimum of five (5) sampling events were scheduled to be conducted per month at the seven (7) sampling locations described in Section 2.1. The dry-weather sampling events were conducted weekly no earlier than 48-72 hours after a rainfall event. During excessively wet months, the Sampling Plan stipulated that three of the dry-weather events could be taken at the earliest 24 hours after rainfall events. The monthly wet-weather sampling events were initiated within four to eight hours of the start of a precipitation event that resulted in an overflow.





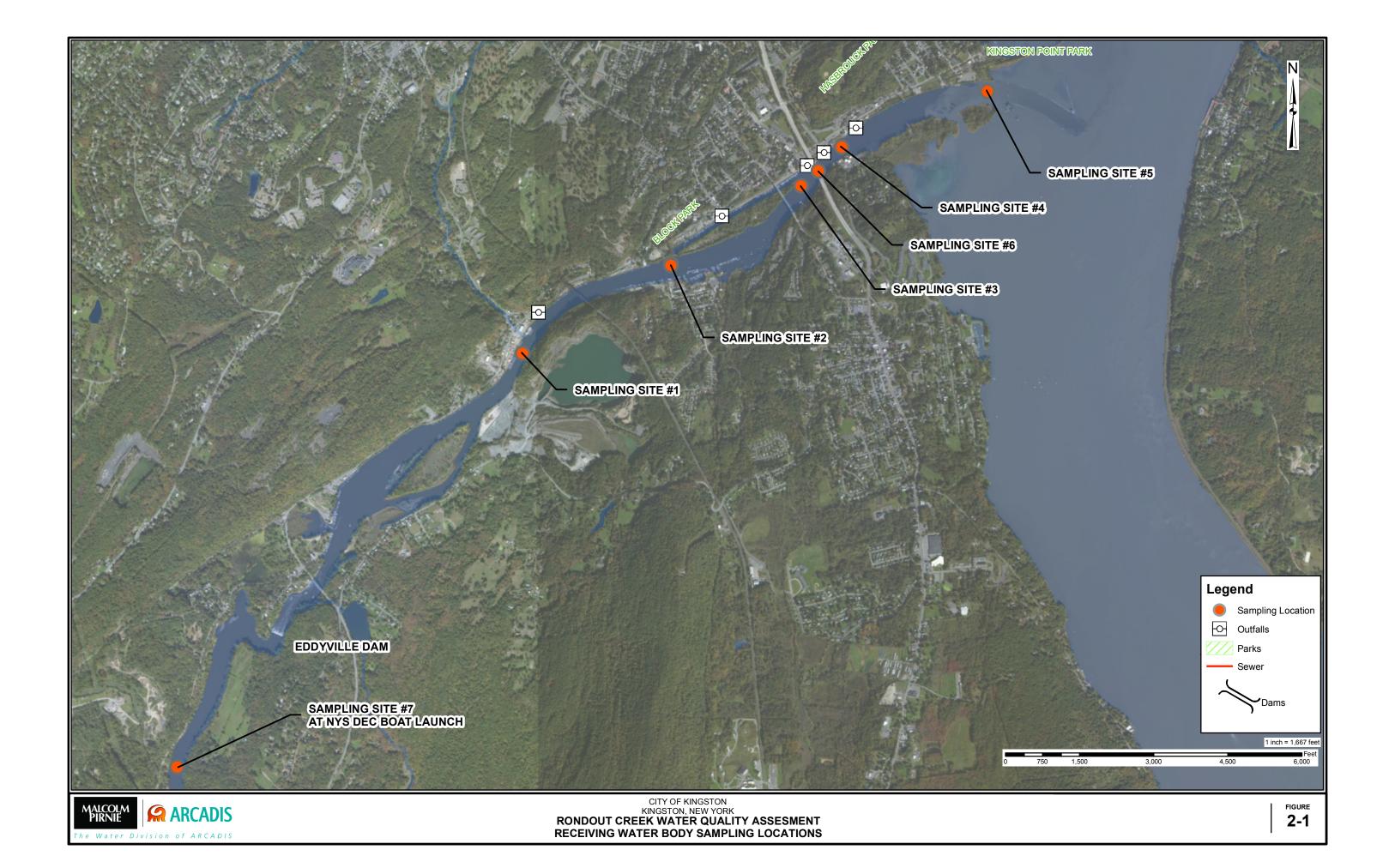
2. Receiving Water Quality Sampling Program

2.1 Water Quality Sampling Locations

Discrete grab samples of receiving water were collected for laboratory analyses at seven sample locations on Rondout Creek, which are listed in Table 2-1 and shown on Figure 2-1. The intent of Figure 2 is to present the general locations for this document.

Table 2-1 Receiving Water Body Sample Locations

Sampling Location Identification Number	Sample Collection Location
#1	Middle of Rondout Creek approximately 250 yards upstream of the Wilbur Avenue Outfall
#2	Middle of Rondout Creek upstream of Block Park
#3	Middle of Rondout Creek approximately 150 yards upstream of bridge
#4	Middle of Rondout Creek approximately 200 yards downstream of bridge
#5	Middle of Rondout Creek upstream of Kingston Point Park
#6	Middle of Rondout Creek underneath the John T. Loughran Bridge
#7	Upstream of the Eddyville Dam at the NYS DEC boat launch





2.2 Sampling Equipment

The water quality sampling program used the following equipment:

- Receiving water body samples were collected from a boat in the middle of Rondout Creek by a team of 2 to 3 field personnel with sampling bottles provided by the laboratories.
- A Hach HQ40d meter with a LDO probe was used to collect field parameters during sample collection at all sampling locations, and was calibrated between each sampling event.
- A GPS locator was used by each team to ensure consistent sampling locations for dry- and wet-weather events.
- Sampling Event Summary Sheets were filled out for each sampling team to record details of sample collection activities.
- Nitrile surgical gloves (disposable) were worn by sampling personnel at all times during sampling events.

2.3 Surface Water Sampling Procedures

Surface water samples were collected using the direct grab sampling technique. Samples were collected at each location in the following order using the detailed procedures outlined the Sampling Plan:

- 1. Fecal coliform
- 2. TSS, settable solids, and floatables
- 3. In-situ field measurements (dissolved oxygen and temperature)

Fecal coliform samples were delivered to Smith Environmental Laboratory, Inc. in Hyde Park, New York within approximately five hours of sample collection to meet the six hour holding time for these analyses.

2.4 CSO Flow Monitoring

The City, in response to comments raised by the NYS DEC in their approval letter for the City's LTCP, installed flow meters to monitor flow at the four CSO locations in order to verify when discharges occurred and to initiate wet-weather sampling events. The City retained ARCADIS to subcontract with McIntosh Controls Corporation for the installation of four SMARTCOVER®-S Units for the four CSO regulators at Wilbur, Hunter, Broadway, and Hasbrouck. The SMARTCOVER®-S Units consist of an





electronics unit, ultrasonic meter, communications antenna, and power pack. These units were installed at all four of the CSOs by July 1, 2014.



3. Sampling Results

3.1 Sampling Overview

Four dry-weather sampling events were performed per month (May through September) as well as four wet-weather sampling events (May through October). A dry-weather sampling event was defined as an event that was preceded by 48 to 72-hours of dry weather. A wet-weather sampling event was defined as an event that was preceded by 72 hours of dry-weather and resulted in more than 0.25 inches of rain. The dry- and wet-weather sampling events along with their measured precipitation are shown in Table 3-1.

Table 3-1 Summary of Sampling Events

Sampling Event No.	Date Time	Direction of Flow	Sampling Condition	Rainfall Amount (in)
1	5/7/14 10:30	Out	Dry	
2	5/12/14 10:55	In	Dry	
3	5/16/14 10:05	Out	Wet	1.4
4	5/20/14 10:40	Out	Dry	
5	5/27/14 11:40	Out	Dry	
6	6/3/14 9:25	Out	Dry	
7	6/16/14 10:55	Out	Dry	
8	6/20/14 14:10	Out	Dry	
9	6/23/14 10:30	In	Dry	
10	7/2/14 18:15	Out	Wet	1.1
11	7/7/14 1:45	Out	Dry	
12	7/18/14 11:10	Out	Dry	
13	7/23/14 10:05	In	Dry	
14	7/27/14 13:15	In	Wet	0.27
15	7/31/14 10:50	Out	Dry	
16	8/5/14 10:05	Out	Dry	
17	8/12/14 9:35	Out	Dry	
18	8/18/14 11:00	Out	Dry	
19	8/26/14 11:15	In	Dry	
20	9/5/14 0:05	Out	Dry	
21	9/9/14 11:40	In	Dry	
22	9/19/14 10:20	In	Dry	
23	9/24/14 13:00	In	Dry	
24	10/8/14 9:45	Out	Wet	0.48



The four wet-weather events provided a range of wet-weather conditions to observe changes in bacteria concentration during an event. The first wet-weather sampling event occurred on May 16 where rainfall was measured to be 1.4 inches at the City of Kingston Wastewater Treatment Plant (WWTP). This event occurred before flow meters were installed and tested, so no data for the volume of CSO flow was recorded. Per the protocol written in the Sampling Plan, City employees were to inspect Hasbrouck to ensure it was overflowing prior to initiating a wet-weather event, which inspection confirmed it was overflowing prior to the wet-weather sampling event on May 16.

The second wet-weather sampling event occurred on July 2 and had a total measured rainfall of 1.1 inches. During this event, all four of the CSOs overflowed as shown in Table 3-2. However, the Wilbur CSO flow monitor was being installed and had not been adequately tested. That monitor was providing erroneous flow measurements during this event. No overflow volume is being reported for Wilbur CSO for July 2, 2014.

The third wet-weather sampling event occurred on July 27 where rainfall was measured to be 0.27 inches. This event caused two of the CSOs to overflow for a total overflow volume of 0.14 million gallons of combined sewage.

The final wet-weather sampling event was on October 8 with a measured rainfall of 0.48 inches, which caused all four of the CSOs to overflow for a combined volume of 1.36 million gallons.

5/16/2014 7/2/2014 7/27/2014 10/8/2014 Flow **Hasbrouck** observed* 2.16 0.126 1.07 **Broadway** NA* 0.19 0.011 0.08 Hunter NA* 0.65 0 0.11 Wilbur NA* N/A* 0 0.095 **Total** 3.00 0.14 1.36

Table 3-2 Wet Weather Event
Combined Sewer Overflow Volume (Million Gallons)

3.2 Bacteria

In order to compare the seven sampling locations to the WQS, geomeans of the fecal coliform counts were calculated for each month during the sampling period for each

^{*} Denotes no volumetric flow data available for this location



site. The geomeans were calculated by first averaging in the duplicate samples then taking the geomean of the averaged values. These geomean values show that none of the sampling locations exceeded the WQS during the five months and the values are presented in Table 3-3. It should be noted that the months of August and September were unusually dry months. The sampling plan required four dry-weather events per month and one wet-weather event. Because of the atypical weather, only four sampling events were performed during the month of August, all of which were dry-weather. For the month of September, there were four dry-weather events and one wet-weather sampling event that occurred in October.

Figures 3-1 through 3-5 show the fecal coliform values for the sampling period, with each plot corresponding to a month of sampling. The sample locations are listed from upstream on the left to downstream on the right in each of the five plots.

Figure 3-6 shows the geomeans for each month of the sampling period. It can be seen from Figure 3-6 that the month of June had elevated fecal coliform concentrations for site numbers 1, 6, 4, and 5. This can be attributed in part to the wet-weather event that occurred on July 2, which activated all four of the CSO's that were monitored. Even with all four of the CSOs activated during this wet-weather event, the geomeans did not exceed the WQS of 200 CFU/100mL. It should be noted that for this sampling event, site 7, which is not impacted by any of the City's CSOs exhibited a fecal concentration of 450 CFU/100mL, and therefore other upstream probable nonpoint sources could be causing a higher baseline. During this same event, sites 4 and 6, which are downstream of the Hasbrouck and Broadway CSOs respectively, saw the highest fecal concentrations. The elevated fecal concentrations can be attributed to the overflows at these locations prior to the time that the sampling event was initiated.

The only other wet-weather sampling event that saw fecal concentrations double that of the baseline of the dry-weather results was the October 8 event. For this event, the concentrations at sites 4 and 5 were 860 and 640 CFU/100mL, respectively. This could be the result of the overflow of the Hasbrouck CSO; however, this did not adversely impact the geomean.



Table 3-3 Fecal Coliform Concentrations (CFU/100mL)

Sampling Location ID	1	2	3	4	5	6	7
5/7/2014	9	60	10	40	35	30	60
5/12/2014	20	9	20	50	20	10	9
5/16/2014	50	85	40	10	30	20	80
5/20/2014	160	190	80	110	90	50	190
5/27/2014	30	20	40	75	180	30	40
Geomean - May	33.7	44.5	30.3	44	50.9	24.6	50.5
6/3/2014	60	10	32.5	20	30	10	10
6/16/2014	270	340	250	320	260	310	300
6/20/2014	35	50	50	60	80	20	10
6/23/2014	80	10	10	10	50	50	10
7/2/2014	270	70	47.5	6750	470	1500	450
Geomean - June	104	41.2	45.4	121	108	85.8	42.3
7/7/2014	150	100	30	105	40	110	60
7/18/2014	10	20	30	50	70	60	9
7/23/2014	80	30	40	30	70	45	9
7/27/2014	60	380	140	30	9	30	9
7/31/2014	30	9	20	10	10	40	20
Geomean - July	46.4	46	39.9	34.3	28.1	51.3	15.4
8/5/2014	10	25	10	30	50	50	10
8/12/2014	60	10	40	80	30	30	9
8/18/2014	20	10	10	15	9	30	9
8/26/2014	30	40	20	10	65	70	9
Geomean - August	24.5	17.8	16.8	24.5	30.6	42.1	9.24
9/5/2014	30	9	50	10	80	30	9
9/9/2014	70	20	30	40	40	10	9
9/19/2014	9.5	20	350	10	40	20	9
9/24/2014	10	9.5	40	30	10	20	9
10/8/2014	100	190	80	860	640	200	10
Geomean - September	28.8	23	70	40.1	60.6	29.9	9.19



Figure 3-1 May Fecal Concentrations

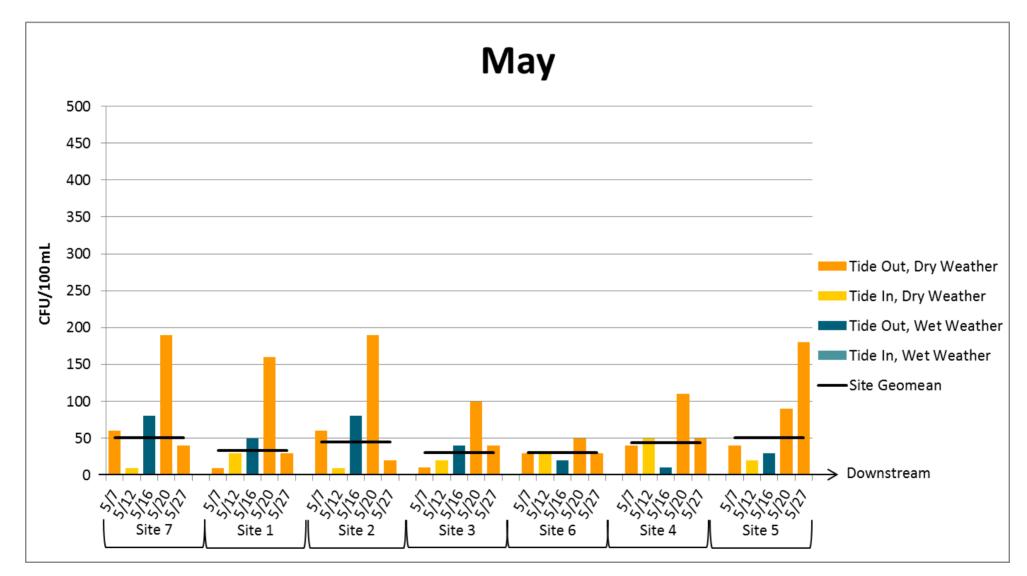




Figure 3-2 June Fecal Concentrations

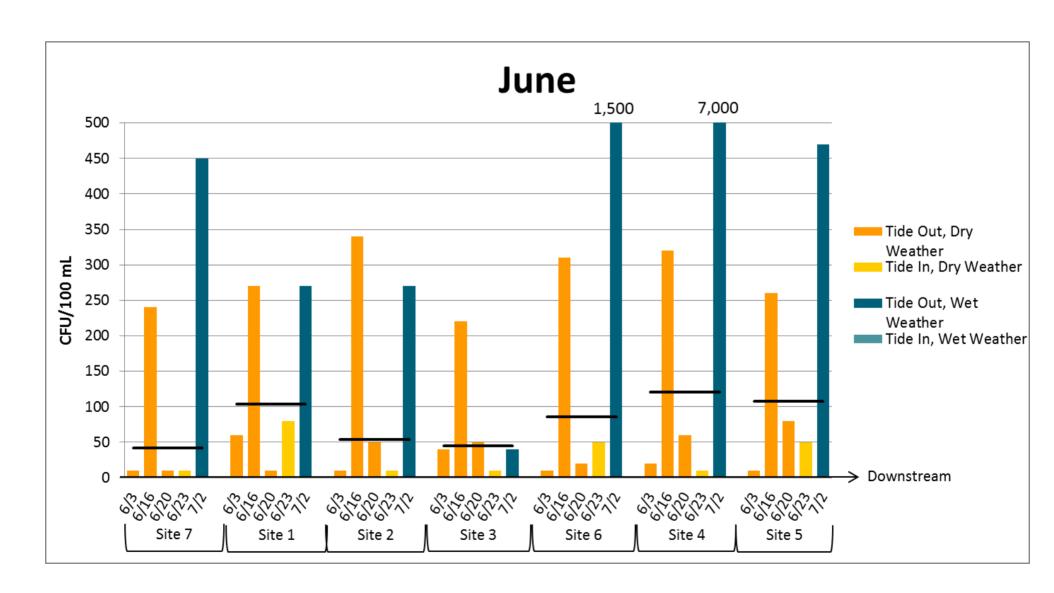




Figure 3-3 July Fecal Concentrations

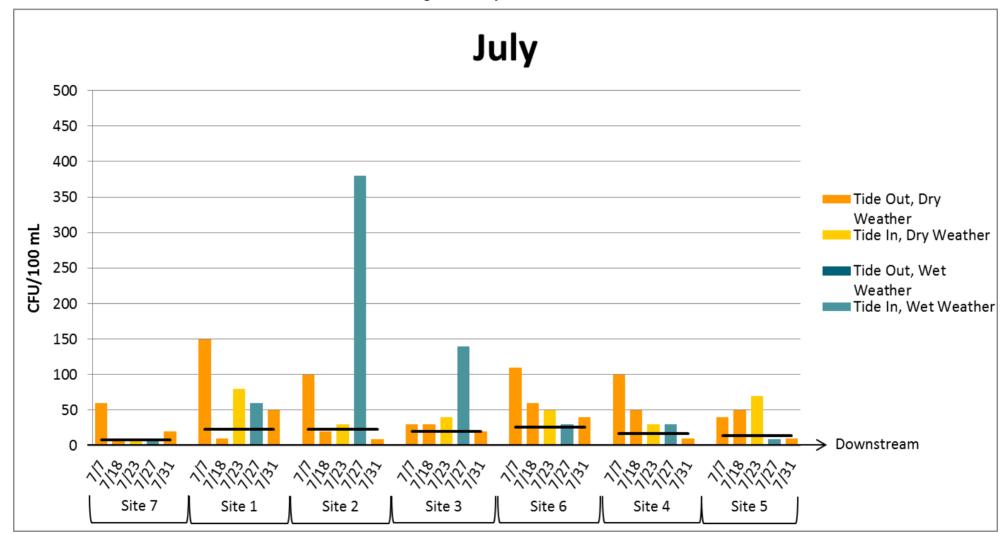
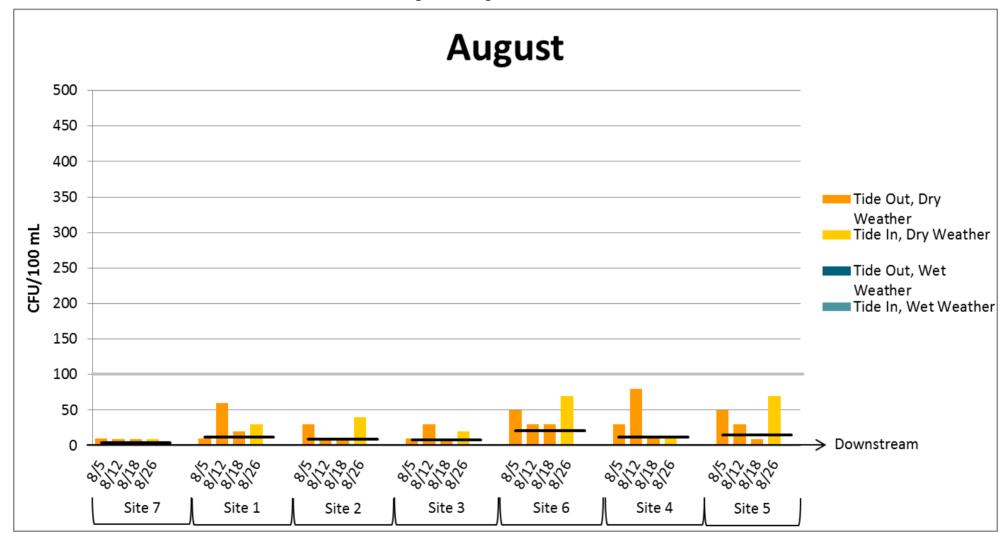


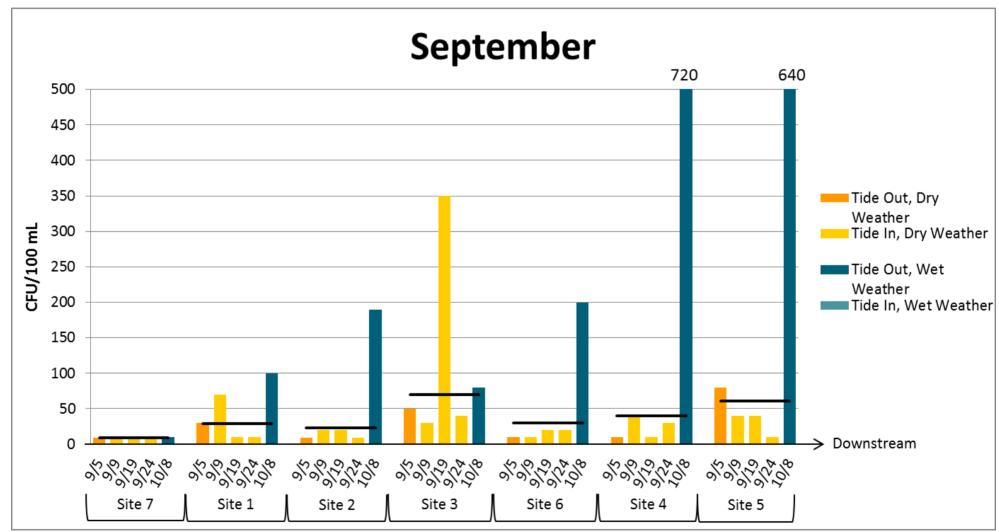


Figure 3-4 August Fecal Concentrations











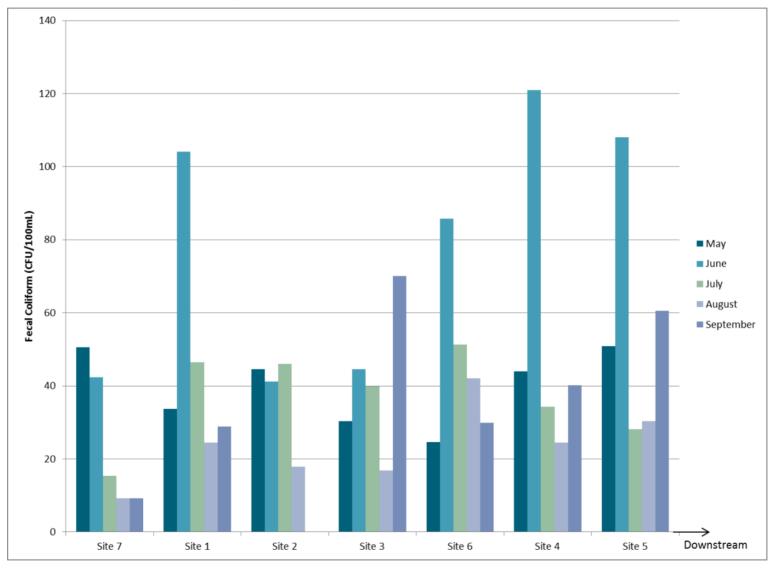


Figure 3-6 Monthly Geometric Mean Fecal Concentrations



3.3 Solids

Settleable solids and TSS were sampled for both dry- and wet-weather sampling events. Due to an lab error during preparation for the first sampling event on May 7th, the sampling team was not provided with enough sampling bottles for solids sampling, and therefore only four of the seven locations were sampled for solids during this event. The sites that were not sampled were Sites 1, 3, and 4. Despite not having data for this sampling event, the five months of data that were collected indicate that these samples would not significantly impact arithmetic means.

The monthly arithmetic mean for settleable solids for each site was calculated to be 0.1 mg/L as shown in Table 3-4, with the exception of Site 7 during September, which had an average of 0.17 milliliter per liter (mL/L). At these concentrations, settleable solids do not cause deposition or impair the waters from their intended use.

Table 3-4 Settleable Solids Monthly Arithmetic Mean Concentrations (mL/L)

	May	June	July	August	September
Site 1	0.09	0.09	0.09	0.09	0.09
Site 2	0.09	0.09	0.09	0.09	0.09
Site 3	0.09	0.09	0.09	0.09	0.09
Site 4	0.09	0.09	0.09	0.09	0.09
Site 5	0.09	0.09	0.09	0.09	0.09
Site 6	0.09	0.09	0.09	0.09	0.09
Site 7	0.09	0.09	0.09	0.09	0.17

TSS results shown in Table 3-5 similarly show that suspended solids do not cause deposition or impair the waters for their intended use. Figure 3-7 shows the arithmetic mean for TSS for each site during the five-month sampling period.

Table 3-5 Total Suspended Solids Monthly Arithmetic Mean Concentrations (mg/L)

E	May	June	July	August	September
Site 1	4.4	6.4	2.3	3.3	3.0
Site 2	5.3	5.4	3.4	2.6	3.4
Site 3	3.0	4.8	3.4	3.2	4.6
Site 4	9.2	6.0	4.6	3.8	5.3
Site 5	7.6	6.0	4.2	6.0	8.0
Site 6	3.8	4.2	3.3	4.3	2.8
Site 7	4.4	5.3	1.9	1.8	2.8



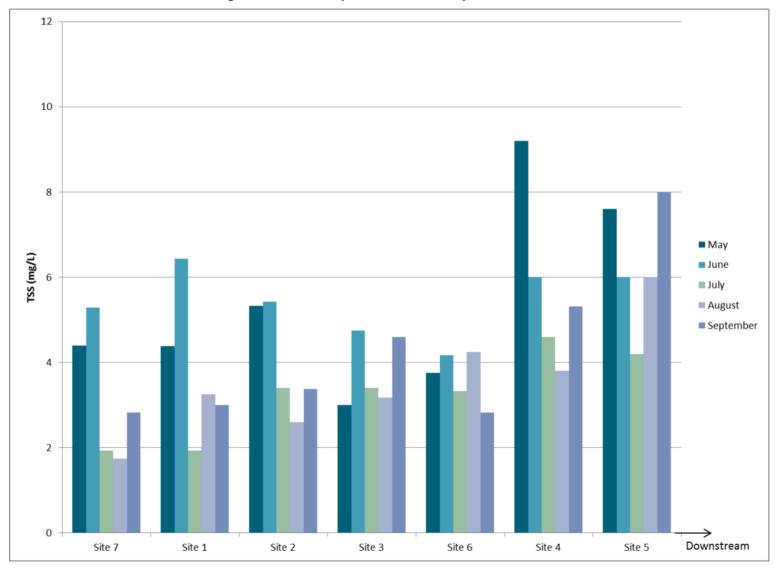


Figure 3-7 Total Suspended Solids Monthly Arithmetic Mean



4. Field Measurements

4.1 Overview

Field measurements of general water quality variables were made during sample collection for all locations. The water temperature and DO were measured with a field probe at the time that each bacteria sample was collected.

4.2 Results

Temperature measurements at the sites were consistent with the season of the sample, with colder temperatures early on and then later in the season. The temperature data is presented in Table 4-1.

Table 4-1 Water Temperature (°

Sampling Location ID	1	2	3	4	5	6	7
5/7/2014	15.4	14.7	14.4	14.3	14.1	14.2	19.5
5/12/2014	18.4	17.5	17.1	17.0	16.9	17.0	16.3
5/16/2014	19.2	19.1	19.1	19.0	19.1	19.0	19.3
5/20/2014	17.7	17.2	16.9	16.8	16.9	16.5	18.1
5/27/2014	21.4	21.9	21.0	20.8	21.1	20.8	21.0
6/3/2014	22.3	21.1	21.7	21.2	21.4	21.4	22.5
6/16/2014	22.4	20.8	20.6	21.3	21.8	21.0	22.4
6/20/2014	25.8	25.2	25.2	24.3	24.2	24.6	25.1
6/23/2014	25.1	24.6	24.0	23.8	23.7	24.5	25.1
7/2/2014	26.9	26.6	26.6	26.5	26.6	26.5	26.7
7/7/2014	25.9	24.8	24.8	24.6	25.7	24.9	25.1
7/18/2014	26.5	25.7	25.5	25.0	24.8	25.1	25.5
7/23/2014	27.1	26.2	26.2	26.4	26.9	26.5	26.4
7/27/2014	28.6	27.7	27.4	26.4	27.3	26.5	26.8
7/31/2014	25.5	25.0	25.3	25.5	25.6	25.6	25.3
8/5/2014	26.2	25.5	25.5	26.1	25.7	26.3	25.7
8/12/2014	25.2	24.9	25.1	25.2	25.1	25.2	24.7
8/18/2014	24.3	23.4	23.7	23.6	23.5	23.7	23.0
8/26/2014	25.7	24.9	24.6	25.4	25.1	26.2	24.9
9/5/2014	26.7	26.7	26.6	26.2	26.3	25.8	26.9
9/9/2014	26.2	24.0	24.4	24.2	24.2	24.1	24.2
9/19/2014	20.7	19.6	19.8	20.0	20.2	19.8	19.6
9/24/2014	21.3	20.7	20.3	20.4	21.1	20.4	20.8
10/8/2014	18.6	18.2	18.3	18.6	18.5	18.4	19.3



DO measurements for all of the sites are listed in Table 4-2. The samples all showed DO readings meeting the WQS.

Table 4-2 Dissolved Oxygen Concentrations (mg/mL)

Sampling							
Location ID	1	2	3	4	5	6	7
5/7/2014	10.1	10.3	10.4	10.4	10.5	10.4	9.8
5/12/2014	9.4	9.6	9.7	9.8	9.6	9.7	9.9
5/16/2014	8.9	9.0	9.0	9.1	8.9	9.1	8.5
5/20/2014	9.4	9.4	9.5	9.6	9.6	9.8	8.8
5/27/2014	8.9	8.8	8.9	9.2	8.3	9.1	8.5
6/3/2014	8.6	8.7	8.7	8.6	8.7	8.8	8.0
6/16/2014	8.3	8.5	8.5	8.3	8.4	8.4	7.4
6/20/2014	8.7	8.7	8.8	8.8	8.8	8.8	8.0
6/23/2014	8.4	24.6	9.4	8.6	8.3	8.9	8.4
7/2/2014	7.5	7.7	8.3	8.5	9.1	8.4	6.0
7/7/2014	8.1	7.9	7.7	8.0	7.7	8.0	6.5
7/18/2014	7.1	7.2	7.3	7.2	7.4	7.3	6.1
7/23/2014	6.9	7.7	7.9	8.1	6.8	7.9	6.0
7/27/2014	6.8	7.2	7.4	7.4	6.8	7.7	6.1
7/31/2014	7.0	7.4	7.4	7.5	7.6	7.5	4.8
8/5/2014	9.1	9.6	9.6	8.9	7.9	9.3	7.4
8/12/2014	9.1	9.5	9.7	10.1	8.9	10.1	6.2
8/18/2014	8.1	7.8	7.8	7.8	7.1	7.9	7.1
8/26/2014	7.7	8.9	8.0	7.7	7.6	6.7	7.3
9/5/2014	12.5	12.1	11.1	10.8	9.7	10.4	9.3
9/9/2014	8.7	9.2	8.6	7.7	7.7	8.1	6.6
9/19/2014	8.1	8.7	8.9	8.7	8.5	8.8	6.8
9/24/2014	9.7	10.1	9.4	8.6	8.6	8.8	7.6
10/8/2014	7.9	8.0	8.1	8.3	8.3	8.4	6.1



5. Quality Assurance / Quality Control

5.1 Overview

The Quality Assurance and Quality Control (QA/QC) protocols for this sampling program were defined in the Sampling Plan. Field QA included requirements for record keeping and chain of custody. In addition, training was conducted with the field crews prior to the sampling season.

Lab QA/QC performance was stipulated to meet certification standards as acceptable to NYS DEC. In addition to the internal lab QA/QC, each field team collected duplicate samples at one of their sampling sites for each event.

5.2 Field Sampling QA/QC

The field crews provided standardized notations on field sheets for each station for all events that correspond to chain of custody attached to samples submitted to the laboratory for bacterial or chemical analysis. A complete chain of custody is available for all lab samples and the original field sheets each field measurement was recorded on were submitted to the project team.

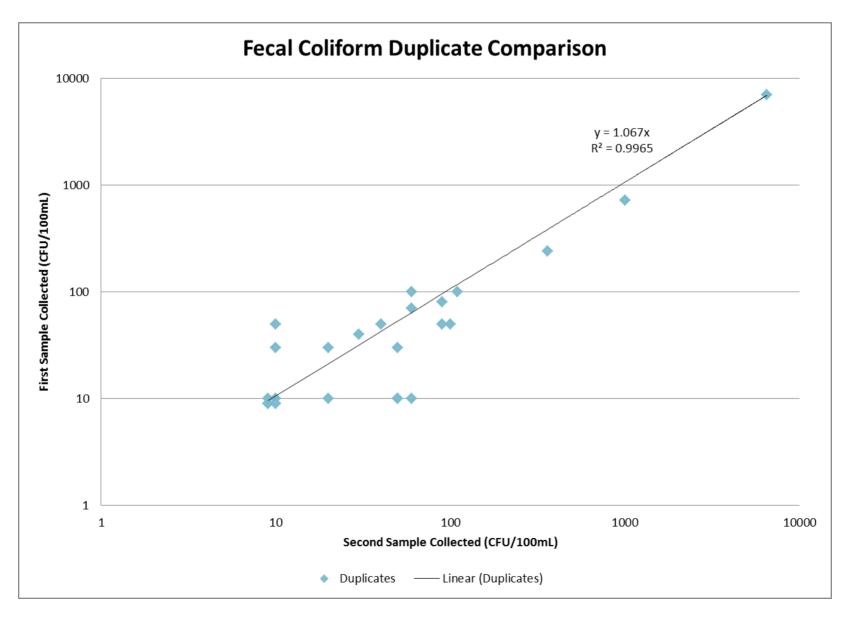
Quality control review of the field data consisted of examination of the values recorded and the documentation provided on the field sheets.

5.3 Laboratory QA/QC

Smith Environmental Laboratory provided internal chain of custody documentation for all samples and additional documentation showing that they met their internal QA/QC checks for all of the data provided. For the bacteria samples, the range of dilutions was selected to provide quantification down to 10 CFU/100mL.

Analysis of the duplicate samples shows strong correlation for fecal coliform concentrations. The relationship of the bacteria samples to their duplicates is shown in Figure 5-1. Some deviation between originals and duplicate samples is anticipated due to the variability of bacteria in water samples and the errors inherent in dilution based analysis. Despite these known challenges, the differences between measured values and their duplicates were within a range that is clearly acceptable for this type of test.







6. Summary and Conclusions

6.1 Sampling Program Goals and Objectives

Sampling was completed for a total of twenty (20) dry-weather events and four (4) wetweather events over a five (5) month period of time spanning May through the beginning of October. Sampling was conducted at seven sampling locations on the Rondout Creek, with one sampling location located upstream of the Eddyville Dam. Dry-weather samples were collected to develop an understanding of the specific ambient or background water quality parameters measured. Wet-weather samples were collected to ascertain the water quality impact of the wet-weather events on the Rondout Creek.

Samples were collected for fecal coliform, settleable solids, and TSS analyses in order to assess the data relative to the existing NYS DEC Class B and Class C fecal coliform standard defined in Part 703.4. Field measurements of general water quality variables were also reported for temperature and DO in order to assess the data relative to the existing NYS DEC standards also defined in Part 703.

6.2 Observed Sampling Conditions

Sampling was successfully completed for four wet-weather events of varying magnitude at the seven locations described in Section 3. Sampling results for fecal coliform, settleable solids, and TSS were presented in Section 3 for both dry- and wet-weather events. The results for the field-measured parameters (temperature and DO) were presented in Section 4.

Geomean values for fecal coliform were used to determine the compliance of each sample location. Out of the five months of data, none of the monthly geomeans exceeded the fecal coliform WQS.

The settleable solids, TSS, and DO arithmetic mean values are all in compliance, with all of the individual sampling results also in compliance with WQS.

6.3 Conclusions

The results of this investigation indicate that based on the five monthly geomeans, the seven sampling sites meet the NYS DEC Standard for fecal coliform. Based on the data provided and discussed herein, it can be concluded that the Rondout Creek does





not exceed WQS promulgated by NYS DEC, defined in Part 703.4 under a range of weather conditions as measured during this study.



Appendix A

City of Kingston
Combined Sewer Overflow
Long Term Control Plan

Receiving Water Quality Sampling Plan For Post Construction Monitoring





Receiving Water Quality Sampling Plan For Post Construction Monitoring

City of Kingston
Combined Sewer Overflow Long Term Control Plan

May 2014



Receiving Water Quality Sampling Plan For Post Construction Monitoring

City of Kingston
Combined Sewer Overflow
Long Term Control Plan

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Acronyms and Abbreviations

CSO Combined Sewer Overflow

DO Dissolved Oxygen LTCP Long-Term Control Plan

New York State Department of Environmental Conservation NYS DEC

QA/QC

SPDES

Quality Assurance / Quality Control State Pollution Discharge Elimination System Wastewater Treatment Facility WWTF

Water Quality Standard WQS



City of Kingston Combined Sewer Overflow Long Term Control Plan

1. Introduction

1.1 Project Background

The City of Kingston (City) has four combined sewer overflows (CSOs) that discharge to Rondout Creek (Figure 1). CSOs are point sources subject to National Pollutant Discharge Elimination System (NPDES) permit requirements including both technology-based and water quality based requirements of the Clean Water Act.

Post Construction Monitoring as described in this section is the method used to assess whether the steps taken to control discharges from the Combined Sewer System comply with the USEPA CSO Policy and, further, whether in complying with the Policy the Rondout Creek meets or is not precluded from meeting Water Quality Standards. This Post Construction Monitoring plan utilizes and updates the Monitoring and Modeling Plan (Appendix A) approved by NYS DEC in 2007 and used by the City of Kingston to collect the sampling data that is the basis for this CSO LTCP.

1.2 Intent

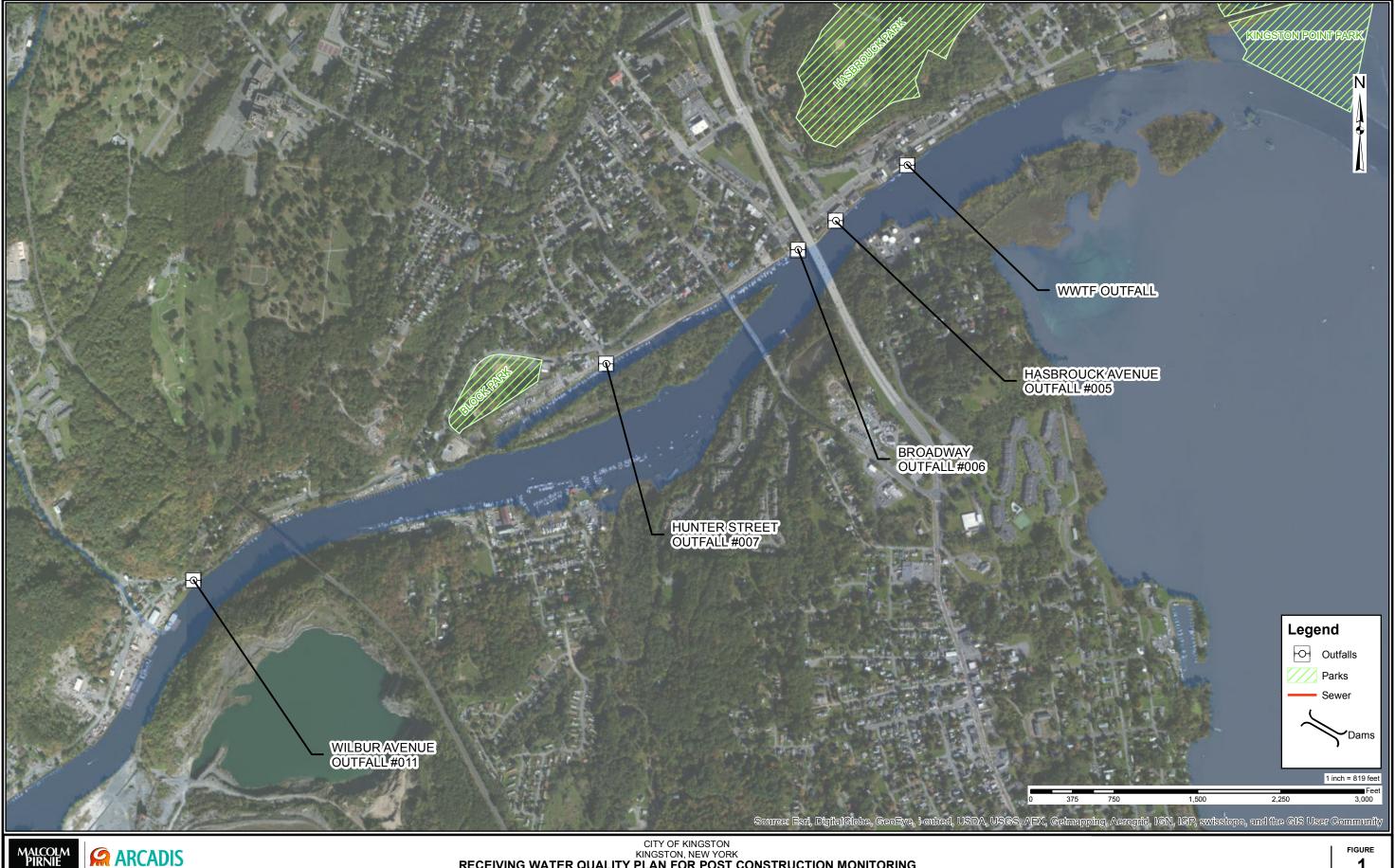
This Post Construction Receiving Water Quality Sampling Plan (Plan) describes the approach that will be taken to characterize the receiving water quality of the Rondout Creek where the City's CSOs discharge. The intent of the receiving water sampling effort will be to characterize the water quality during both dry and wet weather events, to assess the background pollution levels, to assess if Rondout Creek meets Water Quality Standards (WQS) and to assess impacts of implementing the City's Long Term Pollution Control Plan (LTCP).

The discussion in this Plan includes:

- · The water quality sampling equipment that will be used.
- The frequency and duration of water quality sampling.
- The determination for which storm events should be sampled.
- The water quality parameters to be analyzed.

1.3 Methodology and Scope

This Plan describes the locations, equipment, methodologies, and data management protocols that will be used by the City to gather water quality data for the receiving





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waters and outlines responsibilities and procedures to be followed, as well as the timeframe for events.

A minimum of five (5) sampling events will be conducted per month at the original five (5) sampling points located upstream and downstream from the four CSO discharge sites, at the discharge of the WWTF. Two additional samples have been added to this sampling plan to address comments from the NYS DEC. One above of the Eddyville Dam, samples will be collected approximately 3.4 nautical miles upstream of the WWTF on Rondout Creek at the NYS DEC boat launch. The other sampling location is underneath the John T. Loughran Bridge (State Route 9W) in between the Broadway and Hasbrouck Avenue outfalls. Thus, a total of 7 discrete grab samples plus one duplicate will be collected per sampling event. The sampling events will be conducted weekly, with one wet-weather sampling event per month to be conducted within four to eight hours of a precipitation event commencing that would most likely result in an overflow. The four other monthly sampling events will be taken once a week during dry weather no earlier than 48-72 hours after rainfall events. During excessively wet months, the remaining three dry-weather events can be taken at the earliest 24 hours after rainfall events. Any limited set of samples will not necessarily be representative of average conditions so in order to provide more realistic comparison to the existing 30day geometric mean (geomean) based water quality standards for fecal coliform concentration in the receiving stream, the City reserves the right to increase the sampling frequency and/or develop a simplified one-dimensional water quality model to approximate a geomean from 30 daily samples.

Grab samples collected will be collected at the water surface and will be analyzed for:

- Total suspended solids;
- Settleable solids: and
- Fecal coliform.

In addition to grab samples, field measurements and observations will be conducted at each sampling location. This will include:

- Dissolved oxygen (DO); and
- Floatables.



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Sampling events will begin no earlier than May 1 and will conclude no later than October 31, and will include a minimum of three consecutive months of sampling events. Prior to any wet-weather events, permanent flow meters are to be installed at the four CSOs. The sampling locations in the Rondout Creek are shown on Figure 1 and are to be consistent with the locations used in 2007. The Senior Plant Operator for the Kingston Wastewater Treatment Facility will act as the City's Sampling Coordinator and will be the one coordinating and initiating sampling events.



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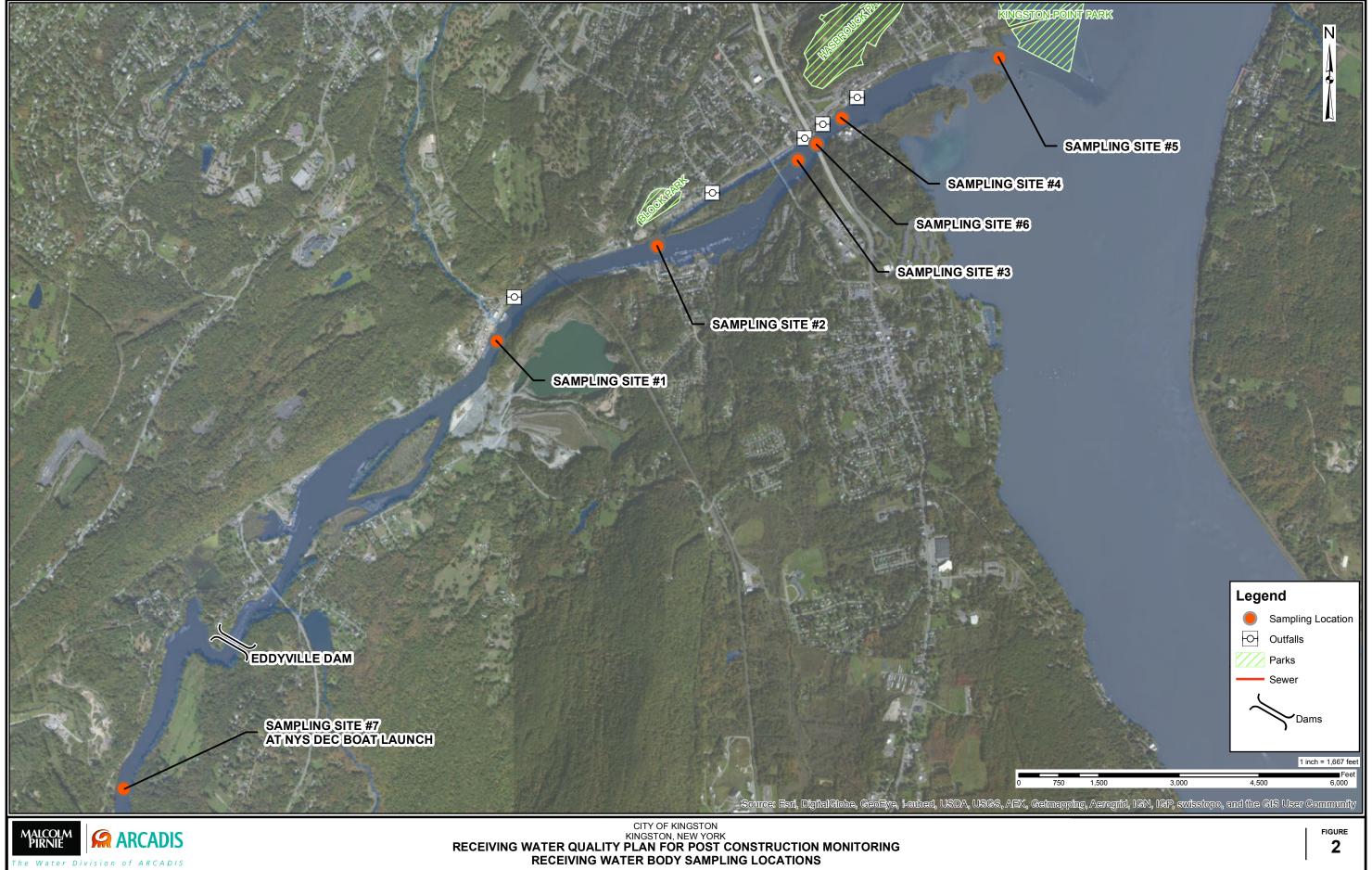
2. Receiving Water Quality Sampling Program

2.1 Water Quality Sampling Locations

Discrete samples of receiving water will be collected for laboratory analyses at 7 sample locations on Rondout Creek and the wastewater treatment plant discharge. The dry- and wet-weather water quality sampling locations are listed in Table 2-1 and shown on Figure 2. The figure is intended to present the general locations for this document. Final sampling locations will be identified and photographed with a detailed site description, along with the GPS-obtained coordinates prior to the first sampling event.

Table 2.1 Receiving Water Body Sample Locations

Sampling Location Identification Number	Sample Collection Location
#1	Middle of Rondout Creek approximately 250 yards upstream of the Wilbur Avenue Outfall
#2	Middle of Rondout Creek upstream of Block Park
#3	Middle of Rondout Creek approximately 150 yards upstream of bridge
#4	Middle of Rondout Creek approximately 200 yards downstream of bridge
#5	Middle of Rondout Creek upstream of Kingston Point Park
#6	Middle of Rondout Creek underneath the John T. Loughran Bridge
#7	Upstream of the Eddyville Dam at the NYS DEC boat launch





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2.2 Sampling Equipment Specifications

The water quality sampling program will use the following equipment:

- All receiving water body samples will be collected from a boat in the middle of Rondout Creek by a team of 2 to 3 field personnel with sampling bottles provided by the laboratories except for the samples collected upstream of the Eddyville Dam. This sample will be collected either by means of a canoe or other small boat or by wading in and collecting the sample.
- A Hach HQ40d meter with a LDO probe will be used to collect field parameters during sample collection at all sampling locations, and should be calibrated between each sampling event.
- A GPS locator will be used by each team to ensure consistent sampling locations for dry- and wet-weather events.
- Sampling Event Summary Sheets (see Attachment 1 in Appendix B) and pens will be required for each sampling team to record details of sample collection activities.
- Nitrile surgical gloves (disposable) will be worn by sampling personnel at all times during sampling.

2.3 Surface Water Sampling Procedures

Surface water samples will be collected using the direct grab sampling technique outlined below. New, sterile, nitrile powder-free surgical gloves will be worn by sampling personnel at all times during sampling. Sampling gloves will be changed between sampling locations. Samples will be collected in the following order using the procedures outlined below:

- 1. Fecal coliform
- 2. Total suspended solids, settable solids, and floatables
- 3. Dissolved Oxygen



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Direct Grab Sampling Procedure:

- Face upstream and into the flow (if tide or surface currents exists face into the current).
- Orient the capped sample container with the opening toward the flow and in front of the sampler.
- Lower the capped sample container to a depth of approximately 6 to 10 inches below the water surface.
- Uncap the container underwater. Avoid touching the inside of the sample bottle and cap.
- Remove the capped sample container from the water, label in accordance with Section 2.7, and place in a cooler with ice.
- Note sample time in the Sampling Event Summary Sheet (Attachment 1).
- Complete the chain-of-custody form for that sample completely (see section 2.7)
- Repeat the sampling process with any remaining containers.

When laboratory sample collection is complete, lower the Hach HQ40d DO meter to the sampling depth and allow meter readings to stabilize. Once the meter has stabilized, record field parameter measurements on the Sampling Event Summary Sheet. Both the direct grab samples and the DO readings can be done simultaneously should sufficient personnel be available.

If the exterior of a sample bottle becomes grossly contaminated during sample collection due to highly turbid surface water, the exterior of the bottles will be rinsed with deionized water before placing the sample container in the cooler.

Fecal coliform must be delivered to the laboratory within five hours of sample collection to meet the six-hour holding time for these analyses and allow time for the Laboratory to filter samples.

2.4 Sample Collection Methodology

The sampling methodology is similar for all the sampling locations including the list of parameters for which samples will be analyzed. The sections below detail sampling frequencies, durations, and methodologies for both dry- and wet-weather sampling. The City's Sampling Coordinator will coordinate necessary containers for each sampling event, with labels and with preservatives. The WWTF will be used for required preservation and packaging of samples after the sampling events.



City of Kingston Combined Sewer Overflow Long Term Control Plan

2.4.1 Dry-Weather Receiving Water Sampling

The goal of the dry-weather sampling is to collect samples four times per month over a minimum three-month period for a minimum of 12 dry-weather events. The sampling period will begin in no earlier than May 2014 and last through October 2014. For each dry-weather event, one analytical grab sample will be collected at each sampling position for a total of 7 samples per sampling event.

2.4.1.1 Dry-Weather Laboratory Analysis Sample Collection

Dry-weather sampling will be conducted in the morning, during business hours (7:00 A.M. –12:00 P.M.). All dry-weather samples will be collected as discrete samples by grab sampling. The grab sample will be poured or directly collected into the appropriate laboratory bottles in the field, ensuring each bottle is filled to provide enough sample volume for analysis of the required parameters. Laboratory analyses for the samples will be performed for fecal coliform. Immediately upon collection, all the samples will be sealed, labeled and packed in coolers with ice, ready for transport to the laboratory. This includes completing the chain-of-custody as soon as the sample has been collected. These samples will be taken to the WWTF at the completion of the sampling event for transport with the other samples collected. The City's Sampling Coordinator will arrange transportation of samples with the laboratories.

2.4.1.2 Dry-Weather Field Measurements

All sampling locations will be verified using a hand-held GPS unit. Dissolved oxygen will be measured at each sampling position using a handheld Hach HQ40d with a LDO probe (the DO probe must be calibrated before each sampling event). The dissolved oxygen measured at each sample location will be logged on field data sheets so that the project team is aware of the ambient conditions under which the water quality samples were collected.

2.4.2 Wet-Weather Receiving Water Sampling

The wet-weather sampling will be performed for up to three storm events during the same period as the dry-weather sampling. The goal is to collect samples during storms that will likely initiate overflows. The wet-weather sampling events shall commence four to eight hours after the storm begins allowing for runoff to flow the system and initiate an overflow. A minimum of 24 discrete grab samples (7 samples



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plus one duplicate per sampling event x minimum of 3 sampling events) will be taken during the receiving water wet-weather monitoring period.

2.4.2.1 Wet-Weather Laboratory Analysis Sample Collection

All wet-weather samples will be collected as discrete samples by grab sampling. The grab sample will be poured or collected directly into the appropriate laboratory bottles in the field, ensuring each bottle is filled to provide enough sample for analysis of the required parameters. Laboratory analyses for the samples will be performed for fecal coliform. Immediately upon sample collection at each location, the samples will be sealed, labeled, packed in coolers with ice, and the chain-of-custody completed. The City will coordinate transportation of samples with the laboratories.

Laboratory personnel will initiate bacteriological testing of the samples collected within six hours of the samples being collected, due to the six-hour test holding time for fecal coliform.

2.4.2.2 Wet-Weather Field Measurements

All sampling locations will be verified using a hand-held GPS unit. Dissolved oxygen will be measured at each sampling position using a handheld Hach HQ40d with a LDO probe (the DO probe must be calibrated before each sampling event). The dissolved oxygen measured at each sample location will be logged on field data sheets so that the project team is aware of the ambient conditions under which the water quality samples were collected.



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2.5 Field Documentation During Sampling

Sampling Event Summary Sheets (see Attachment 1) will be completed during each sampling event by each sampling team. These will include entry spaces for:

- Time of sampling;
- · Date of sampling;
- Initials of Recorder:
- · Weather Conditions:
- Storm discharge flow / hydraulic conditions (standing water / moving flow, etc.);
- Dissolved Oxygen, and
- Physical Observations:
 - Presence of grease;
 - Presence and type of floatables;
 - Presence of atypical smells; and
 - Color.

Any other comments regarding additional observations deemed relevant should be recorded. The log will be completed by the sampler and given to the sampling leader upon completion of the sampling event.

2.6 Sample Labeling

Each container for grab sampling of the receiving water will be labeled on its cover with the name of the sample location.

2.7 Sample Shipping and Chain-of-Custody

This guideline presents a method for chain-of-custody procedures to track sample shipments (if required), to minimize loss or misidentification of samples, and to ensure that unauthorized persons do not tamper with collected samples. If sampling coolers are not shipped sampling crew should maintain custody or keep samples secured at all times prior to delivery to the laboratory.

 Fill out the Chain-of-Custody form completely (see Attachment 2) with all relevant information (the white original goes with the samples and should be placed in a "Ziploc" plastic bag and taped inside the sample cooler lid; the yellow copy should be retained by the sampler).



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- 2. Mark liquid volume levels on sample bottles with grease pencil.
- 3. Tape drain shut and wrap cooler completely with strapping tape to secure lid.
- 4. Place lab address on top of cooler. To protect the shipping coolers against tampering during shipment, the cooler lid will be taped to the cooler body. A chain-of-custody seal will be placed over the tape. A broken seal will indicate that the contents may have been tampered with.

2.8 Submission of Samples to Laboratory

The laboratory to be used for water quality analysis will be the City of Kingston's Water Department Lab. The following key points regarding sample submission will be addressed by all parties:

- All samples will be submitted to the laboratories in laboratory provided bottles.
 For discrete samples collected at all sampling locations, the Chain-of-Custodies will be completed immediately upon collection of the samples by the field team.
- All coliform samples must arrive at the laboratory for analysis within 5 hours of the sample collection time, with regard to the 6 hour holding time. All other samples must be submitted for analysis within 12 hours of collection.
- · All samples must be packed in coolers with ice after collection.
- The City Sampling Coordinator is responsible for coordinating pick-up or delivery of all samples with the laboratory. The field team is responsible for transporting all samples to the WWTF, and submitting all samples in appropriate containers with appropriate labeling and Chains-of-Custody to the City's Sampling Coordinator immediately after the event.
- The City is responsible for system-wide record keeping and for directing the laboratories in sample analysis.

Section 2.8 contains the Standard Procedure for Sample Shipping that will be followed by the City, and Attachment 2 presents an example Chain-of-Custody form.

2.9 Equipment Calibration and Maintenance Protocols

All equipment will be programmed to the clocks of cellular telephones of the field personnel. As part of the pre-sampling staging before each dry- or wet-weather sampling event, the handheld Hach HQ40d meter with a LDO probe shall be calibrated following manufacturer's recommendations for the DO probe. This will provide for



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more accurate results, and is recommended by the manufacturer as standard operating procedure.



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3. Determination of When to Sample

Each week teleconferences will be conducted between the City and ARCADIS. The purpose of these weekly teleconferences is to allow the Sampling Coordinator opportunities to consult with ARCADIS on possible windows for positive dry- and wetweather sampling events for the week. Ultimately, the Sampling Coordinator will determine to sample or not to sample.

3.1 Dry-Weather Sampling

Dry-weather sampling will occur on the third consecutive dry day, four times per month, for three consecutive months during the period from May 2014 to October 2014. If a dry-weather sampling event is completed, and a rainfall event does not occur on the following day, another dry-weather sampling event can be completed as early as the next day if required. Dry-weather sampling events will generally occur during business hours, Monday through Friday. Weekend work may be required if the appropriate number of events were not able to be obtained during business hours. The initiation and termination of dry-weather sampling will be determined by the City's Sampling Coordinator. The Sampling Coordinator will specify the time at which dry-weather sampling is to commence. The sampling event will commence at the time specified, provided that a rain event does not occur between notification to mobilize and the sampling event commencement.

3.2 Wet-Weather Sampling

A minimum of three wet-weather events will be sampled at all receiving water body locations identified in Table 2-1. The goal for the sampled storms will be to have a rainfall volume of at least 0.5 inches +/-50% (0.25 to 0.75 inches) and at least one CSO activate.

There must be a minimum of 72 hours of antecedent dry weather prior to a storm event for the event to be sampled. Sampling will be conducted within four to eight hours of a precipitation event commencing that would most likely result in an overflow.



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4. Laboratory Analysis

4.1 Designated Laboratory

The laboratory to which the samples will be submitted has been specified by the City as Smith Environmental Laboratory, Inc. in Hyde Park, NY.

4.2 Analytical Methods

Table 4-1 details the parameters that will be sampled for and the analytical methods. The selected lab should provide sufficient range of sample dilutions to accommodate for a potential range of fecal coliform counts from 10 to 1,000,000.

Table 4-1 Laboratory Analysis Detail

Parameter	Method	Holding Time
Fecal Coliform	Membrane Filtration –	6 hours
	Standard Method 9222D	

Notes: Estimated/anticipated detection limits only - to be confirmed by discussion with selected laboratories.

4.3 Laboratory Quality Assurance / Quality Control (QA/QC)

Quality control sample analyses that will be performed during this project to document the acceptability of the data will include:

- Equipment Blanks
- Duplicate Samples
- Laboratory Blanks
- Equipment blanks (rinsate blanks) are defined as samples that are generated by rinsing representative sampling equipment with laboratory analyte-free water and then analyzing the rinsate in a similar fashion as regular samples. Equipment blanks are used to assess the cleanliness of equipment used for sampling and the adherence to equipment cleaning practices. Equipment blanks will be collected from sampling equipment immediately before initiation of each sampling event (dry or wet weather). Each sampling crew that mobilizes to perform sampling for a given event will collect equipment blanks from one sampling jar and from one grab sampling device. Each crew will use laboratory analyte-free water to prepare equipment blanks by rinsing one



City of Kingston Combined Sewer Overflow Long Term Control Plan

sampling jar, and one grab sampling device, individually with enough volume to take samples of each of the parameters of concern included in this project. Thus, each sampling crew will have two sets of equipment blank samples: one representative of a sampling jar and the other representative of a grab sampling device. All equipment blanks will be acquired from sampling equipment before sampling crews depart to perform sampling.

- Duplicates samples are defined as a second, or duplicate, set of samples that are obtained from the study matrix which are prepared and analyzed alongside regular samples. Duplicate samples are used to assess the precision of the entire sampling activity. Collecting duplicate samples translates to the collection and additional large grab sample from a given location. For the additional sampling event, the sampling event leader will designate one of the sampling crews to obtain an additional sample volume from their sampling location. The designated crew will collect a duplicate sample. For each wetweather sampling event, one duplicate sample will be collected for every 10 samples collected in the field by each field team during the event. The sampling teams must ensure they take extra sets of laboratory sample bottles into the field for collection of these duplicate samples during each event.
- Laboratory blanks are used to assess the accuracy of laboratory analytical procedures. Laboratory blanks will be prepared by contract laboratory personnel in accordance with established QA/QC procedures. Guidelines for laboratory blank preparation and analytical results reporting by contract laboratory will be determined based on correspondence and contract development between the sampling contractor and the contract laboratory. A copy of the contract should be submitted to Malcolm Pirnie the Water Division of ARCADIS (ARCADIS) for review prior to program initiation.

The QA/QC plan will be ascertained through the following actions:

- All sampling holding times shall be in full compliance with the requirements set forth in applicable EPA-approved methods published in "Standard Methods for the Examination of Water and Wastewater":
- Chains of custody reports shall be completed for all samples and field blanks;
- All analytical work, with the exception of the field measured parameters (Dissolved Oxygen and floatables) shall be performed by a contract laboratory having a New York State Environmental Laboratory Accreditation Program



City of Kingston Combined Sewer Overflow Long Term Control Plan

(ELAP) certification (in accordance with the National Environmental Laboratory Accreditation Conference (NELAC) Institute);and

The contract laboratory shall provide a copy of its approved standard operating
procedures and protocols for analytical work and QA/QC procedures for each
parameter or parameter group in full compliance with applicable EPAapproved methods published in "Standard Methods for the Examination of
Water and Wastewater".



City of Kingston Combined Sewer Overflow Long Term Control Plan

5. Field Team Quality Assurance Procedures

Several quality assurance procedures will be applied to the field team activities. These procedures are presented below.

- All sampling personnel shall be familiar with the goals and objectives of this sampling program, sampling locations, equipment, and protocol;
- All sampling holding times shall be in full compliance with the requirements set forth in applicable EPA-approved methods published in "Standard Methods for the Examination of Water and Wastewater";
- Chains of custody reports shall be completed for all samples and field blanks;
 and
- All equipment to be used for the field measurements shall be in good working order and properly calibrated as per manufacturer's recommendations.

5.1 Team Training

Team training provides an important quality assurance mechanism for this water quality sampling program. The first dry-weather sampling event will be organized prior to any wet-weather sampling, and will be used as a formal wet-weather sampling test run and workshop. This will ensure that field personnel are comfortable with the sampling procedures. The training will be conducted by ARCADIS, and supported by the City. All members of the sampling teams will participate in the workshop. Training topics will include:

- Health and Safety
- Sampling Protocols
- Coordination

After the samples have been collected, the field team will return to the WWTF and samples will be prepared for the laboratory. This will test the arrangement of the staging area, chain of-custody protocols, and the laboratory delivery process.



Appendix A: Attachments



Attachment 1: Sampling Event Summary Sheets

Attachment 1 - Sampling Event Summary Sheet

Initials:	Date:	of	
Sampling Team:			
Weather:	Temperature:		
Direction of Flow:			

Sampling Location	Time	Field Parameter	Physical Observations	Comments
, J	-	DO	Grease	
		temperature	Floatables	
		,	Odors	
		DO	Grease	
		temperature	Floatables	
			Odors	
		DO	Grease	
		temperature	Floatables	
			Odors	
		DO	Grease	
		temperature	Floatables	
			Odors	
		DO	Grease	
		temperature	Floatables	
			Odors	
		DO	Grease	
		temperature	Floatables	
			Odors	
		DO	Grease	
		temperature	Floatables	
			Odors	
		DO	Grease	
		temperature	Floatables	
			Odors	



Attachment 2: Sample Chain-of-Custody Form



CHAIN OF CUSTODY RECORD

518-250-7300 fax: 518-250-7300 MALCOLM PIRNIE, INC. 855 ROUTE 146, SUITE 210 CLIFTON PARK, NEW YORK 12065 http://www.arcaid-us.com

CLIENT:				·					
PROJECT:							SPECIAL INSTRUCTIONS:		
PROJECT	NUMBER:								
	MANAGER:								
LABORAT	ORY:								
LABORATORY CONTACT:									
LAB ID	SAMPLE ID/ DESCRIPTION	DATE	TIME	MATRIX	GRAB/ COMPOSITE	No. of Cont.	ANALYSIS REQUIRED	NOTES / PRESERVATIVE	
Matrix Identification: SL - SLUDGE SW - SURFACE WATER S - SOIL DW - DRINKING WATER L - LEACHATE SE- SEDIMENT GW - GROUND WATER A - AIR SO - SOLID O - OIL WI - WIPE				DS - DRUM SOLID DL - DRUM LIQUIDS X - OTHER WW - WASTE WATER			LAB USE ONLY		
SAMPLED BY (SINGATURE): DATE/TIME				RECEIVED BY (SIGNATURE):				DATE/TIME:	
RELINQUISHED BY (SIGNATURE): DATE/TIM				RECEIVED BY (SIGNATURE):				DATE/TIME:	
RELINQUISHED BY (SIGNATURE):			DATE/TIME RECEIVED			ATURE):	DATE/TIME:		
METHOD OF SHIPMENT:			DATE/TIME				LAB USE ONLY:	•	
RECEIVED AT LABORATORY:									



Appendix B: Sewer System Characterization, Modeling and Monitoring Plan

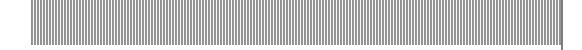


City of Kingston

420 Broadway • Kingston, New York 12401

Sewer System Characterization, Monitoring and Modeling Plan

July 2007



Report Prepared By:

Malcolm Pirnie, Inc.

43 British American Boulevard Latham, New York 12110 (518) 782-2100



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- B. Preliminary Receiving Body Water Quality Monitoring Results
- C. Schedule



1.1. Background Information

The City of Kingston maintains and operates a combined sewage system (CSS) under the New York State Pollution Discharge Elimination System (SPDES) Permit Number NY 002 9351. The City is located in the Hudson River Valley of New York State approximately 50 miles south of Albany and occupies approximately 7.4 square miles of land. Kingston's sanitary sewage collection system consists of approximately 80 miles of pipe ranging in size from 4 to 60 inches in diameter and a Waste Water Treatment Facility (WWTF) that has a permitted rolling annual average treatment capacity of 6.8 million gallons per day (MGD).

The City's current SPDES permit includes the outfall for the WWTF and four Combined Sewer Overflows (CSOs) that discharge to Rondout Creek, a tributary to the Hudson River. Approximately 30 percent of the 80 miles of City sewers are combined. Figure 1-1 shows a map of the City and the four CSOs.

Prior to 1992, the City was permitted for 14 CSO outfalls to Rondout Creek, which are described in their *Combined Sewer Overflow Plan*, as dated last revised August 1992. The City has expended considerable resources to eliminate CSOs by either separating the combined systems that were contributory to them, diverting flows to alternate sewers, and by allowing surcharging of the collection system in order to maximize the capacity of the system. A copy of the current SPDES permit is included in Appendix A.

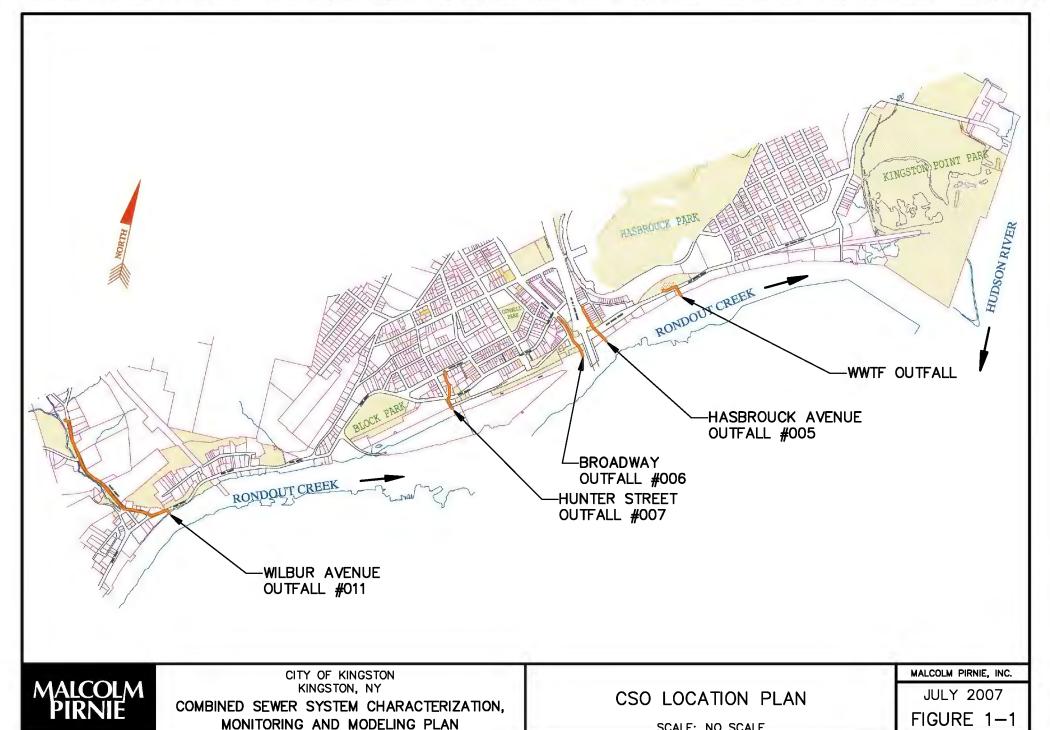
1.2. Purpose

The purpose of this report is to develop a plan for characterization of the City's combined sewer system. The characterization plan is required for the City's SPDES permit Best Management Practice (BMP) 14 as administered by the New York State Department of Environmental Conservation (DEC), which requires compliance to the United States Environmental Protection Agency (EPA) *Combined Sewer Overflows Guidance for Nine Minimum Controls*, 1995, Chapter 10, and is required for the development of a Long-Term Control Plan (LTCP).

The overall goal of a CSS Characterization, Monitoring and Modeling Plan (Plan) is to develop an understanding of the CSS and be able define the impacts of CSOs on the receiving body in order to implement cost-effective controls to reduce the water quality







SCALE: NO SCALE

impacts from CSOs and provide compliance with the Clean Water Act (CWA) requirements, including attainment of water quality standards.

1.3. Scope of Work

The scope of this Plan is to provide the City with the following:

- A plan for monitoring the frequency, duration, and volume of overflows at the four CSO structures;
- A plan to complete collection system mapping;
- A plan for monitoring the water quality of the Rondout Creek during both dry and wet weather events; and
- A plan to characterize the pollutant loadings from the CSOs to the Rondout Creek and determine any negative impacts associated with the overflows.



2. Receiving Water Conditions Assessment

2.1. Existing Conditions

The City is located near the northwest corner of the confluence of Rondout Creek flowing from the west and the Hudson River flowing from the north. At this point, both rivers are influenced by the tidal effects of the Atlantic Ocean. This reach of the Rondout Creek is classified by the DEC as a Class "C" water body. The section of the Hudson River into which the Rondout Creek flows at the southeast corner of the City is a Class "A" water body.

The WWTF discharges to Rondout Creek approximately 3,000 feet upstream of the confluence with the Hudson River. The tidal effects and the proximity of the Hudson River would require significant efforts to accurately develop a water quality model of this reach, if a model was required to be developed.

The City has conducted some sampling and analysis of the receiving water to determine the dry and wet weather water quality conditions of the Rondout Creek. Sampling took place between May 10, 2006 and September 15, 2006. Several grab samples were analyzed in 2006 from the diversion structures of the CSOs and at various points along Rondout Creek. These sample results are included in Appendix B. This sampling program is limited and does not provide sufficient data to determine the geometric mean of fecal coliform levels in Rondout Creek. This data only provides a rudimentary understanding of the effects that overflow events can have on the water quality of the Creek.

2.2. Receiving Water Monitoring Plan

2.2.1. Intent

As part of the requirements to implement a CSS Characterization, Monitoring and Modeling Plan, the City will collect grab samples of the Rondout Creek. The intent of the sampling effort will be to characterize the existing water quality during both dry and wet weather events.

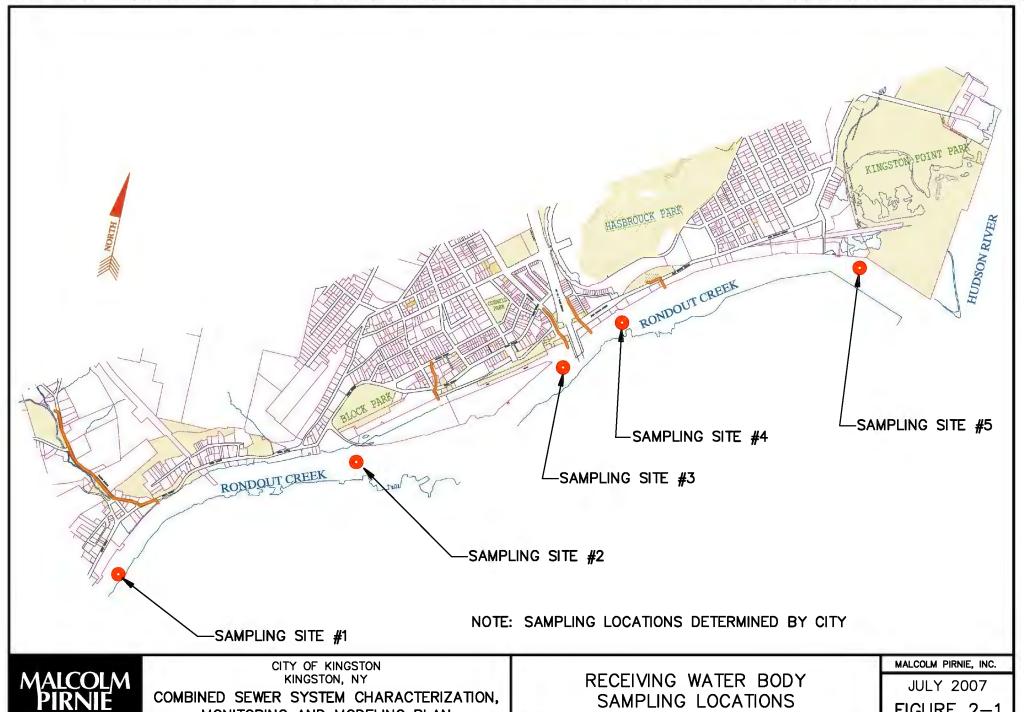
2.2.2. Methodology and Scope

Five sampling events will be conducted per month at the five sampling points located upstream and downstream from the four CSO discharge sites and the WWTF (see Figure 2-1 for sample site locations). The sampling events will be conducted weekly, with one additional sampling event to be conducted within two to four hours of a





XREFS: IMAGES: F:\PROJECT\5744004\FILE\CSS Characterization Plan\fig_1_new.UPG F:\PROJECT\5744004\FILE\CSS Characterization Plan\LOGO.UPG User: lewandowski Spec; PIRNIE STANDARD File: H: \PROJECT\5744004\FILE\CSS Characterization Plan\FIGURE 2,DWG Scale: 1:1 Date: 12/11/2008 Time: 10: 22 Layout: Layout:



SAMPLING LOCATIONS

SCALE: NO SCALE

FIGURE 2-1

COMBINED SEWER SYSTEM CHARACTERIZATION,

MONITORING AND MODELING PLAN

precipitation event commencing that would most likely result in an overflow. The four monthly samples will be taken once a week during dry weather no earlier than 72 hours after rainfall events. During excessively wet months, the remaining three samples can be taken at least 24 hours after rainfall events. Grab samples collected will be collected at the water surface and will be analyzed for:

- Total suspended solids.
- Settleable solids.
- Fecal coliform.
- Dissolved oxygen (DO).
- Floatables.

Sampling events will commence in August and continue for a minimum of 15 weeks (or three months). Refer to Section 5, Schedule. The sampling locations in the Rondout Creek are shown on Figure 2-1.

2.3. Quality Assurance/Quality Control Plan

The water quality sampling Quality Assurance/Quality Control (QA/QC) Plan will be ascertained through the following actions:

- All sampling personnel shall be familiar with the goals and objectives of this sampling program, sampling locations, equipment and protocol.
- All sampling holding times shall be in full compliance with the requirements set forth in applicable EPA-approved methods published in "Standard Methods for the Examination of Water and Wastewater".
- Chains of custody reports shall be completed for all samples and field blanks.
- All analytical work, with the exception of the field measured parameters (Dissolved Oxygen and floatables) shall be performed by a contract laboratory having a New York State Environmental Laboratory Accreditation Program (ELAP) certification (in accordance with the National Environmental Laboratory Accreditation Conference (NELAC) Institute).
- The contract laboratory shall provide a copy of its approved standard operating procedures and protocols for analytical work and QA/QC procedures for each parameter or parameter group in full compliance with applicable EPA-approved methods published in "Standard Methods for the Examination of Water and Wastewater".
- All equipment to be used for the field measurements shall be in good working order and properly calibrated as per manufacturer's recommendations.





2.3.1. Field Work

The field work QA/QC program will be comprised of the following components:

- Equipment blanks.
- Duplicate samples.
- Laboratory blanks.

2.3.1.1. Equipment Blanks

Equipment blanks (rinsate blanks) are defined as samples that are generated by rinsing representative sampling equipment with laboratory analyte-free water and then analyzing the rinsate in a similar fashion as regular samples. Equipment blanks are used to assess the cleanliness of equipment used for sampling and the adherence to equipment cleaning practices. Equipment blanks will be collected from sampling equipment immediately before initiation of each sampling event (dry or wet weather). Each sampling crew that mobilizes to perform sampling for a given event will collect equipment blanks from one sampling jar and from one grab sampling device. Each crew will use laboratory analyte-free water to prepare equipment blanks by rinsing one sampling jar, and one grab sampling device, individually with enough volume to take samples of each of the parameters of concern included in this project. Thus, each sampling crew will have two sets of equipment blank samples: one representative of a sampling jar and the other representative of a grab sampling device. All equipment blanks will be acquired from sampling equipment before sampling crews depart to perform sampling.

2.3.1.2. Duplicate Samples

Duplicates samples are defined as a second, or duplicate, set of samples that are obtained from the study matrix which are prepared and analyzed alongside regular samples. Duplicate samples are used to assess the precision of the entire sampling activity. Collecting duplicate samples translates to the collection an additional large grab sample from a given location. For the additional sampling event, the sampling event leader will designate one of the sampling crews to obtain an additional sample volume from their sampling location. The designated crew will collect a duplicate sample.

2.3.1.3. Laboratory Blanks

Laboratory blanks are defined as samples of laboratory analyte-free water that are put through similar preparatory and analytical procedures as regular samples. Laboratory blanks are used to assess the accuracy of laboratory analytical procedures. Laboratory blanks will be prepared by contract laboratory personnel in accordance with established QA/QC procedures. Guidelines for laboratory blank preparation and analytical results reporting by contract laboratory will be determined based on correspondence and contract development between the sampling contractor and the contract laboratory. A copy of the contract should be submitted to Malcolm Pirnie for review prior to program initiation.



2.3.1.4. Field Documentation During Sampling

Sampling personnel will complete a sample log sheet for each sampling location during the additional sampling event. The log will include documentation of the following during sampling at each location:

- Time of sampling.
- Date of sampling.
- Weather conditions.
- Storm discharge flow/hydraulic conditions (standing water/moving flow, etc.).
- DO.
- Physical Observations:
 - Presence of grease.
 - Presence of floatables.
 - Presence of atypical smells.
 - Color.

Any other comments regarding additional observations deemed relevant should be recorded. The log will be completed by the sampler and given to the sampling leader upon completion of the sampling event.

Each container for grab sampling of the receiving water will be labeled on its cover with the name of the sample location.



3. Combined Sewer System Mapping, Database and Digitizing

3.1. Existing Conditions

The City has the majority of the combined sewer system mapped on record drawings that indicate the location of manholes, inlets, catch basins, pump stations, forcemains, sewers, and overflow structures in AutoCAD format. There is little data available pertaining to the inverts of the manholes and sewers that would be utilized for CSS modeling.

3.2. Intent

The intent of the CSS mapping, database, and digitizing task is to develop a single reference for the City in a geographic information system database. The City does not intend to perform a geographic positioning system (GPS) survey of its CSS; however, the City intends to digitize the existing mapping and develop a skeleton database structure that can be populated with data at a later date if funding becomes available.

3.3. Methodology

The City will solicit funding from various sources for archiving records and developing a GIS of its CSS, sanitary sewers, and storm sewers. The existing maps will be digitized and a database developed that will contain specific fields for population at a later date by City personnel.



4. Combined Sewer System Monitoring

4.1. Intent

It is the intent of the City of Kingston to replace metering equipment in the overflow chambers located at two of the existing CSOs, place an insert area-velocity meter down stream of the diversion chamber at Hunter Street, and place a level transducer in the equalization tank of the Wilber Avenue. These meters will allow the City to collect a minimum of one year of data pertaining to the frequency, duration, and volume of overflows throughout the City.

4.2. Methodology

One of the conditions to be met for compliance with the Ninth Minimum Control is the monitoring of the frequency of the overflow events at each CSO, where feasible. Since there are only four CSOs, monitoring of overflow occurrences at each CSO should be within the ability of the City and its staff.

There are many different methods available to monitor the frequency of overflow events. The simplest method is block testing. Block testing is the placement of a tethered block on a CSO control weir. When the block has been pushed off of the weir by an overflow, the event can be recorded as an overflow. The block can then be pulled back into place by the tether from the manhole access without entering the confined space of the outflow structure. The shortcomings of the block method include its reliance on staff to visit the outfall after each rainfall event and accessibility of the overflow weir from the access point. A more complex, yet less user-dependent method for overflow frequency monitoring is automatic monitoring. Electronic equipment can be installed in the overflow channels to record the level of flow in the channels and the flow rate, if required. The shortcomings of the automatic method include accessibility to a reliable power source and equipment failure problems.

For the purposes of this study, the City will install automatic metering equipment and data loggers at each of the overflows in order to accurately assess the frequency, duration, and volume of the overflow discharges as discussed herein.

4.3. Outfall Conditions

The condition of each outfall was examined to determine which overflow frequency monitoring method would be the most efficient and cost effective for each overflow chamber. Electronic equipment will be installed at all outfalls to automatically record





overflow data. All data will be recorded at each site and handheld equipment will be used that can collect the data, which can then be transferred to a desktop computer for compilation and examination.

4.3.1. Outfall #006 (Broadway)

The Broadway outfall consists of two separate facilities. The first, a diversion chamber, lies at the intersection of Abeel Street and Broadway and contains the overflow weir leading to the screening facility. From the diversion chamber, the overflow sewer is a 60-inch diameter reinforced concrete pipe (RCP) that travels down Broadway to the bar screen facility, which lies just over 100 feet from Rondout Creek at the intersection of West Strand Street and Broadway. The bar screen facility for the Broadway outfall includes a below-grade channel, which contains two mechanical bar screens. The screens collect large debris and floatables from the overflow stream before it is discharged to the Rondout Creek.

The overflow weir for the Broadway outfall is not readily accessible from the street manhole access, which makes block testing difficult without routine inspection and confined space entries. Therefore, the City has elected to collect flow frequency data at this outfall by the future installation of an area-velocity meter in the sewer entering the screening building. The benefit for this method of flow frequency data collection is that flow rate, duration of the overflow, and volume of the overflow are measured. The system will be provided with a data logger for maintaining a history of overflow data and will be downloaded by City personnel once per week. This data can then be used in preparation for the LTCP.

4.3.2. Outfall #005 (Hasbrouck Avenue)

The Hasbrouck Avenue outfall consists of a screening facility, similar to the Broadway outfall, except that the overflow weir at Hasbrouck is just upstream of the screening building at the dead-end of Catherine Street and contains a mechanical regulator just downstream of the sewer exiting the diversion chamber. The mechanical regulator maintains a maximum flow that can be discharged to the WWTF so that the WWTF is not deluged under wet weather conditions. As the regulator closes, combined sewage is backed up into the sewer, eventually overflowing the weir to the screening building. A 60-inch diameter RCP exits the screening building and discharges to the Rondout Creek.

The overflow weir for the Hasbrouck Avenue outfall is not readily accessible from the street manhole accesses, which makes block testing difficult. The Hasbrouck Avenue outfall screening facility is very similar to the Broadway screening facility. Therefore, the best method for the City to collect data at this outfall is to install an area-velocity meter in the sewer entering the screening facility. The benefit for this method of flow frequency data collection is that flow rate, duration of the overflow, and volume of the overflow are measured. The system will be provided with a data logger for maintaining a history of



overflow data and will be downloaded by City personnel once per week. This data can then be used in preparation for the LTCP.

4.3.3. Outfall #011 (Wilbur Avenue)

The Wilbur Avenue outfall consists of three separate structures installed approximately halfway between the Wilbur Avenue intersections with Wall Street and Chapel Street. The three structures from upstream to downstream of this outfall are: an equalization tank, a pump station, and a screening building. Flow that enters the equalization tank of the Wilbur Avenue pump station can be pumped to the City's WWTF. The equalization tank contains a high level overflow that discharges to a 24-inch diameter overflow sewer. When the flow exceeds the capacity of the pump station, it is directed to a screening facility that contains two automatic bar screens. The Wilbur Avenue screening facility is similar to those located at the Broadway and Hasbrouck CSOs.

To keep data consistent with the data collected from the other outfalls, a level sensor will be installed at the Wilbur Avenue overflow weir. The data logger used to collect data at the other outfalls will also be able to be used at Wilbur Avenue. This data collection method at Wilbur Avenue will only record water level over the weir. Calculations can be performed on the data to approximate flow.

4.3.4. Outfall #007 (Hunter Street)

The Hunter Street outfall consists of a diversion chamber with an overflow weir leading to a 36-inch diameter brick sewer that discharges to the Rondout Creek. The diversion chamber is located on Hunter Street, approximately 100 feet west of its intersection with Ravine Street.

The overflow weir for this diversion structure is a wood block structure that lies beneath a small concrete slab which acts as a step for access from the manhole. Therefore, it will not be possible to place a tethered block on the overflow weir without entering the chamber following confined spaced entry protocol. Therefore, the City will install a battery powered level sensor and data logger that will record frequency of overflow occurrences. The recording device will be attached to the underside of the chamber, immediately adjacent to the manhole access so that entry into the chamber will not be necessary for data retrieval. Data will be downloaded on a weekly basis and after each precipitation event greater than 1/2 inch.

4.4. Outfall Inspections

Weekly inspection of the outfalls and recording equipment will be conducted to ascertain that the equipment is operating properly and to collect data.

For all outfalls, recorded overflow events will be correlated to rainfall data. The City has a rainfall gauge at the WWTF on East Strand Street. The rainfall gauge will be calibrated





to verify its accuracy prior to commencement of the monitoring program. The rainfall gauge results can be used to determine the types of storms that result in overflows at each outfall.

All applicable safety precautions will be followed for inspection of any outfalls to be accessed from manholes. Safety precautions include, but are not limited to:

- Deployment of safety cones.
- Blocking traffic.
- Confined space entry procedures.

4.5. Rainfall Data

The rainfall gauge at the WWTF will be inspected every day to see if any measurable rainfall has occurred in the last 24 hours. If so, the rainfall amount, date, and approximate duration will be recorded. During periods of dry weather, outfalls will be inspected at least once per week.



5. Combined Sewer System Characterization

5.1. Intent

The collected flow and precipitation monitoring and river water quality data will be reviewed to estimate the frequency and volume of CSO activations and assess the impacts of CSO pollutant loadings on applicable water quality parameters of Rondout Creek.

5.2. CSO Activation Evaluations

Once the sufficient CSO discharge flow monitoring data is collected, the CSO flow monitoring and WWTF recorded data can be used to evaluate, under current conditions, the total volume treated at the WWTF, CSO volume, percent capture and frequency of overflow activations for a typical year of precipitation. These evaluations can establish an assessment of the existing system compliance status with the USEPA CSO Control Policy.

Longer term CSO discharge monitoring data (up to and over a year of monitoring) is typically required for such evaluations without developing a collection system model. The precipitation statistics for the monitoring period are compared to the long-term historical precipitation averages to determine if the monitoring conditions can be considered typical. If necessary, adjustments to CSO discharge data can be made to normalize the data to typical conditions.

The purpose of evaluating the CSO and precipitation is to estimate the annual percent capture and total number of overflow activations. Eighty-five percent capture of annual wet weather flows and 4 to 6 overflow activations per year are the two presumptive approach criteria by which compliance with the CSO Control Policy is first assessed. Evaluating existing conditions for these two parameters would establish the starting point from which CSO control alternatives need to be sized to bring the system into compliance with the CSO Control Policy.

5.3. Water Quality Evaluations

The data will be reviewed for trends during dry and wet weather conditions. Figures and tables will be developed to illustrate the changes in water quality parameters tested during the monitoring period. Dry weather and wet weather baseline conditions will also





be summarized for use in preliminarily evaluating water quality in comparison to the receiving stream water quality standards.

Estimated pollutant loadings from each CSO will be developed by utilizing the flow frequency, duration and volume data developed through the CSS monitoring discussed in Section 4. Typical pollutant values for CSOs presented in the Report to Congress, *Impacts and Control of CSOs and SSOs*, dated August 2004, will be utilized for the estimation of the pollutant loadings to the receiving stream.

Further evaluations will be performed to estimate whether the CSO discharges from the City result in exceeding or preclude from the attainment of the receiving stream water quality standards. There are a number of approximation methods that could be completed to support the water quality evaluations necessary for LTCP planning. The evaluations necessary for planning purposes include estimating the potential impact of CSO discharges on the receiving stream and determining the benefits of various LTCP alternatives in terms of improving water quality. The three most common approximation methods (typically used for estimating the impact from CSOs on fecal coliform concentrations in the receiving streams) are briefly discussed below.

5.3.1. First Approximation Method – End of Pipe Evaluation

A first approximation would involve an end of pipe evaluation using output from a continuous SWMM model simulation or existing CSO activation data. The assumption with an end of pipe evaluation is that any CSO discharge would cause bacteria concentrations greater than 200 MPN/100ml at the end of the discharge pipe since a CSO discharge typically has bacteria concentrations ranging from 105 to 107 MPN/100ml. This approach would not include analysis of the transport, fate, or decay of pathogens in the receiving stream.

Estimates of annual CSO occurrences are the basis for the first approximation method. These occurrences are typically obtained from SWMM model simulations or actual monitoring data from the typical year and include total annual CSO volume, hours of activation per year, maximum discharge rates and CSO discharge frequencies. Concentrations could also be applied to the CSO volume to estimate loadings of contaminants.

The first approximation method is especially applicable for pathogens, given that with current bacteriological water quality standards an exceedance is effectively triggered with any CSO occurrence. The first approximation is not as applicable for assessing attainment of water quality standards for other parameters (e.g., dissolved oxygen).



5.3.2. Second Approximation Method – Dilution Evaluation

The second approximation method incorporates a concentration and dilution evaluation and is typically performed after the first approximation. All of the evaluations included in the first approximation would be completed and the results would be combined with concentrations and river flows, thereby providing an estimate of the dilution of the CSO discharge and instream concentrations. The second approximation method explicitly accounts for CSO discharge concentrations, and also for background concentrations in the stream. It does not include transport, fate, or decay processes. The second approximation again assumes that bacteriological standards are the most critical and the most difficult criteria to meet.

A spreadsheet analysis is the simplest means of conducting the second approximation method. Using this method involves combining the stream discharge rates with the predicted CSO discharge rates (from the SWMM model or actual data from the typical year). Event mean concentrations in CSO discharges would be used in conjunction with the CSO discharge rates to predict concentrations.

5.3.3. Third Approximation Method – Dilution/Decay Evaluation

The third approximation method is the most complex and comprehensive evaluation that can be performed to assess CSO impacts on receiving streams. Data from the typical year, or a continuous SWMM simulation similar to the evaluation mentioned above, would be used to predict CSO discharge hydrographs as input for subsequent receiving water evaluation (modeling). This approach would account for the transport, fate, and decay of the parameters of interest. The choice of modeling tools depends on the specific questions that need to be answered and how detailed the simulation needs to be to obtain necessary information. A simple spreadsheet model may be applicable for a one-dimensional transport/decay model while more sophisticated water quality modeling tools such as USEPA QUAL2EU steady-state model or Water Quality Analysis Simulation Program (WASP) dynamic model would be more applicable for a two-or three-dimensional transport/decay model. These sophisticated models are also capable of modeling other parameters in addition to fecal coliform such as DO, nitrogen, phosphorus, and carbonaceous biochemical oxygen demand (CBOD).

The extent of the water quality evaluations necessary for assessing the impact from the City's CSOs on the Rondout Creek will be determined upon collecting and evaluating of the CSO discharge flow data and the receiving stream water quality data. It is anticipated that the end of pipe evaluation will be utilized.





Appendix B

Rondout Creek Sampling Raw Data

Attach ht 1 - Sampling Event Summary Sheet

SAMPLING EVENI #1

Date: 5-7-14

Page 1 of 1

In/tials: Sampling Teams

Weather:

2. TERPEAUNICIA ADINI /A.T. BROOKS /C. SCHEFFEL

ATA

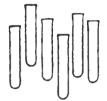
11.424.

MUSTLY SUULLY

Direction of Flow: EASTERLY OUT Temperature: #16H

LOWER CREEK -(Eus 11:45A. SPART 10 30H SAMPLING **Physical Observations** Sampling Location Time Comments Field Parameter AT-41,90652 TIDE CUT (EASTERLY). #1 in DOLE OF NONE mg/L Grease REMIDINT CK, N 250 YDS LONG - 74.06.443 10 YDS WESTERLY OF FEELEY DRYDOCK STICKS temperature 15.4 C Floatables UPSTREAM OF WILBUR 10:48AM NONE OUTFALL Odors # 2 MID. REMOCUTER LAT: 41.91247 TIDE OUT (EASTERLY DO 10.3 mg/L. NONE Grease LONG -73,49210 UPSTREAM OF BLOCK PE SOYDS - SOUTHERLY OF CAUSEMAY CULLERTS temperature 14.7°C Floatables NOWE TO ISLAND DOCK. 11:06 AM NOW Odors LAT 41,9147 TIDE ONT / EASTERLY) # 3 mID. ROWCVICK Ni.VE DO 20.4 mg/L Grease Linvis - 73.48 465 25-YDS SOUTHERLY OF STEEL BOILER Floatables STICKS ~ 150 YDS UPSKEAM temperature 14.4°C NEAR ISLAND BULKHEAD CV BRIDGE (SED) 11:13 Am Odors NENE LAT 41.9/32 TIDE ON EASTE 44 MID RONDOVICE DO 10,4 mg/L NGOLF Grease LY OF STEELHOUSE SO YOS SOUT 1200 YOS DOWN, TREAM LONG - 73 47407 temperature 14.3 C Floatables None PATIC OF BRIDGE (). NEW 11:24 AM NONE Odors TIDE OUT (ENST LAT: 41.92 1934 FOF GAS LINE # 5 MID RENDENT CK. DO 10.5 mg/L NORE Grease 50 YOS SOUTH LONG-73.96950 UPSTREAM OF KGN temperature 14.1°C Floatables NONE CROSSING SIL PT PK NONE 1:38A. Odors 1 AF: AL 91745 HE MID. READONT DO 10.4 mg/c TIDE OUT / EAS went Grease CK, UNDER LOVEHRAN LENG - 73.98139 50 YOS SWALER & CLEARWATER SHED temperature / 4.2°C Floatables NOW RT.9W) BRIDGE DOUBLE SLIDE 1 MOD IS II Odors NONE LAT: 41.88481 N) - 4 #17 UPSTREAM OF 9.8 mg/L. DO NONE Grease END OF BOAT - WALK - 40 FT LUNGFECTED LONG. - 74.03004 EDDYVILLE DAM C. FROM HAD OF GUIDERAIL - SAMPLING) Floatables NONE temperature 16°C MYSDEE DEAT WOULD BY TIDE Odors Aint DONE FROM POLE - NO BOAT AMILABLE CREEKINGS RP TWINGFULSTER 12:47 AM SEE SITE #5 ABOVE SITE #5 #8 DO Grease DUYLICATE temperature Floatables.

Odors



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Wastewater Treatment Plant

Attn: Allen Winchell 91-129 East Strand

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

120878

Sample Number:

214571

Sample Location:

Site #1

Sample Comment:

FC rec'd at 13.0 deg C.

Date/Time sample collected:

5/7/2014

10:48

Collected By:

Alan Adin

Date/Time sample received:

Received by:

Amy Jo

Date/Time sample analyzed:

5/7/2014 5/7/2014 14:00 16:40

Tech:

SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 10

CFU/100mL

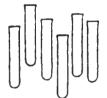
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by:/Lab Manager, ELAP Lab ID #10924

12-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Wastewater Treatment Plant

> Attn: Allen Winchell 91-129 East Strand

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

120878

Sample Number:

214572

Sample Location:

Site #2

Sample Comment:

FC rec'd at 10.6 deg C.

Date/Time sample collected:

5/7/2014 11:06

Collected By:

Alan Adin

Date/Time sample received:

5/7/2014

Received by:

Amy Jo

Date/Time sample analyzed:

5/7/2014

14:00 16:40

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

60

CFU/100mL

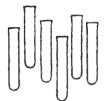
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab !D #10924

12-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Wastewater Treatment Plant Client:

> Attn: Allen Winchell 91-129 East Strand

Kingston NY 12401 **PO#**

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

120878

Sample Number:

214573

Sample Location:

Site #3

Sample Comment:

FC rec'd at 10.7 deg C.

Date/Time sample collected:

5/7/2014 11:13

Collected By:

Alan Adin

Date/Time sample received:

5/7/2014

Received by:

Amy Jo Tech: SS

Date/Time sample analyzed:

5/7/2014

14:00 16:40

Test Method

Parameter Fecal Coliform Test Result* 10

Units CFU/100mL

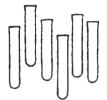
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

12-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Wastewater Treatment Plant Client:

> Attn: Allen Winchell 91-129 East Strand

Kingston

NY 12401 **PO**#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

120878

Sample Number:

214574

Sample Location:

Site #4

Sample Comment:

FC rec'd at 13.7 deg C.

Date/Time sample collected:

5/7/2014 11:29

Collected By:

Alan Adin

Date/Time sample received:

Amy Jo

Date/Time sample analyzed:

5/7/2014 5/7/2014 14:00 16:40

Received by:

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

40

CFU/100mL

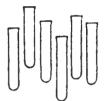
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

12-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Wastewater Treatment Plant Client:

> Attn: Allen Winchell 91-129 East Strand

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

120878 Order ID:

Sample Number:

214575

Sample Location:

Site #5

Sample Comment:

FC rec'd at 14.0 deg C.

Date/Time sample collected:

5/7/2014

11:38

Collected By:

Alan Adin

Date/Time sample received:

Received by:

5/7/2014

14:00

Amy Jo

Date/Time sample analyzed:

5/7/2014

16:40

Tech: SS

Test Method

Parameter Fecal Coliform Test Result* 40

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

12-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Wastewater Treatment Plant

> Attn: Allen Winchell 91-129 East Strand

Kingston 12401

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

120878

Sample Number:

214576

Sample Location:

Site #6

Sample Comment:

FC rec'd at 13.8 deg C.

Date/Time sample collected:

5/7/2014 11:21 Collected By:

Alan Adin

Date/Time sample received:

5/7/2014

5/7/2014

14:00

Received by: Amy Jo

Date/Time sample analyzed:

16:40

Tech: SS

PO#

Parameter

Test Result*

Units

Test Method

Fecal Coliform

30

CFU/100mL

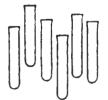
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Manager, ELAP Lab ID #10924

12-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Wastewater Treatment Plant

Attn: Allen Winchell 91-129 East Strand

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

120878

Sample Number:

214577

Sample Location:

Site #7

Sample Comment:

FC rec'd at 11.7 deg C.

Date/Time sample collected:

5/7/2014 12:51

7/2014

44.00

Collected By:

By: Alan Adin

Date/Time sample received: Date/Time sample analyzed:

5/7/2014

5/7/2014

14:00 16:40 Received by: Amy Jo

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

10

CFU/100mL

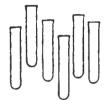
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

12-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Wastewater Treatment Plant

> Attn: Allen Winchell 91-129 East Strand

Kingston NY 12401

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

120878

Sample Number:

214578

Sample Location:

Duplicate

Sample Comment:

FC rec'd at 13.1 deg C.

Date/Time sample collected:

5/7/2014 11:42

Collected By:

Alan Adin

Date/Time sample received:

5/7/2014 5/7/2014

14:00

Received by: Amy Jo

Date/Time sample analyzed:

16:40

SS Tech:

PO#

Parameter

Test Result*

Units

Test Method

Fecal Coliform

30

CFU/100mL

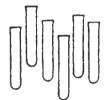
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

12-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Wastewater Treatment Plant

> Attn: Allen Winchell 91-129 East Strand

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

120878

Sample Number:

214729

Sample Location:

Blank-QC

Sample Comment:

FC blank plate run with 100 mL buffered rinse water.

Date/Time sample collected:

5/7/2014 16:40 Collected By:

Date/Time sample received:

5/7/2014

16:40

Received by: Amy Jo

Date/Time sample analyzed:

5/7/2014

16:40

SS Tech:

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 1

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

12-May-14

Attach ant 1 - Sampling Event Summary Sheet

Ini**j**ials:

AJA

Date: 5.12 14

Page <u>1</u> of <u>1</u>

Sampling Team:

A.ADIN/R. SWENSON/A.WINCHELL/K. McIntsh

Westher:

CLEAR - 709

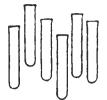
Temperature:

Direction of Flow:

IN - WESTERLY.

RONDOT CREEK.

Sampling Location	Time	Field Parameter	Physical Observations	
SITE #1 MOCREEL ~ 250705	10:55A	DO 9.4 mg/L	Grease Nome	TIDE IN WESTERLY
USTREAM OF WILBUR	LAT: 41.54 41.907	temperature 18.4°C	Floatables NOME	10405 - WEST OF FEELEY
ONFALL	LOUG. 74.003		Odors NONE	DRY DOCK
SITE # 2	ilito A.	DO 9.6/mg L	Grease None	TIDE IN WESTERLY.
IN I D CREEK-UPSTREAM OF BLOCK PHEN.	LAT: 41.91	temperature 17.5°C	Floatables NOVE	50 YDS- SOUTHERLY- EXTISLAND
	LONG 73.94		Odors NOWE	DOCK CAUSENAY COLNERTS.
SITE # 3 MID	11:19 A.	DO 9.7/mgL	Grease NonE	TIDE IN WESTERNY.
PEEK ~150 YDS	LAT: 41.9149	temperature / チ. í と	Floatables Nove	STEEL BOILEZ PROPRIDING FROM
BRIDGE	LONG: 73.9849.		Odors Nove.	WATER NORTHEDDLY SIDEOF CREEK
517E#4 MID	117,32A LAT: 41.9193 LOUG 73.9790	DO9.8 9.7/19/L	Grease None	50 YDS SOUT ZLY OF STEELHOUSE
CREEK ~ 200 YDS		temperature 7.0°C	Floatables None	REST. PATTE
BRIDGE		17.0°C.	Odors NONE	TIDE IN WE TY
SITE &S MID CREEK	11:41 A. LAT 41.9220 LONG 73.9697	DO 9.6 mg/L.	Grease NONE	TIDE IN EAST 7
UPSPREAMOR KINGSTON PT. PARK		temperature 16.9°C	Floatables NONE	50YOS SOUTH Y OF
TI. THEC			Odors NONE.	CHGE DANGE TIGK
SITE#6 MIDCREEK	11:26 A. LAT. 41.9177 LONG 73.9813	DO 9.7 mg/L	Grease NowE	TIDE IN WESTE - 50 YDS SOTHERLY
BRIDGE		temperature / 7.0.C	Floatables NUME	OF CLEARWAY SHED DONBUR
321002			Odors NONE	pares.
OF EDOYVILLE DAM	12:25 9.	DO 9.9 mg/L	Grease NOME	- WESTERLY END
PAHODEC BOAT	LAT: 41.8848	temperature /6.3°C	Floatables NoME	OF NYSDEC BOAT LAUNCH ~ 40 FROM END OF GUIDERAIL - SAMPLE FROM
TONE OF USTER.	LONG: 74.0300		Odors NONE	POLE SHORE W/ POLE/SITE UNDEFFECTEDBY T
18	SITE #1	DO	Grease	SEE SITE #1
18 DUPLICATE		temperature	Floatables	- •
	10:57A.		Odors	



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston NY 12401 **PO#**

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID: 120973

Sample Number:

214784

Sample Location:

Site #1, grab

Sample Comment:

FC rec'd at 15.4 deg C.

Date/Time sample collected:

5/12/2014 10:55

15:30

Collected By:

Alan Adin

Date/Time sample received:

5/12/2014

Received by:

Amy Jo

Date/Time sample analyzed:

5/12/2014 16:40

Tech: SS

Parameter

Test Result*

Units

Test Method SM 18 9222D

Fecal Coliform

30

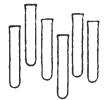
CFU/100mL

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14

^{*}Bacteriological test results are expressed as Colony Forming Units.



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 **HYDE PARK, NEW YORK 12538** (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

120973

Sample Number:

214785

Sample Location:

Site #2, grab

Sample Comment:

FC rec'd at 14.6 deg C.

Date/Time sample collected:

5/12/2014

11:10

15:30

Collected By:

Alan Adin

Date/Time sample received: Date/Time sample analyzed: 5/12/2014 5/12/2014 16:40

Received by: Amy Jo

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 10

CFU/100mL

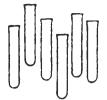
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 **HYDE PARK, NEW YORK 12538** (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 **PO#**

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

120973

Sample Number:

214786

Sample Location:

Site #3, grab

Sample Comment:

FC rec'd at 11.2 deg C.

Date/Time sample collected:

5/12/2014

11:19

Collected By:

Alan Adin

Date/Time sample received: Date/Time sample analyzed: 5/12/2014 5/12/2014

15:30 16:40 Received by: Amy Jo Tech:

SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

20

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

120973

Sample Number:

214787

Sample Location:

Site #4, grab

Sample Comment:

FC rec'd at 14 deg C.

Date/Time sample collected:

5/12/2014

11:32

Collected By:

Alan Adin

Date/Time sample received: Date/Time sample analyzed: 5/12/2014 5/12/2014 15:30 16:40

Received by: Amy Jo Tech:

SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

50

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

120973

Sample Number:

214788

Sample Location:

Site #5, grab

Sample Comment:

FC rec'd at 15.4 deg C.

Date/Time sample collected:

5/12/2014 11:41

5/12/2014

Collected By:

Alan Adin

Date/Time sample received: Date/Time sample analyzed:

15:30

Received by: Amy Jo

5/12/2014

16:40

Tech: SS

Test Method

Parameter Fecal Coliform **Test Result*** 20

Units CFU/100mL

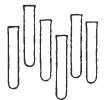
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

120973

Sample Number:

214789

Sample Location:

Site #6, grab

Sample Comment:

FC rec'd at 14.3 deg C.

Date/Time sample collected:

5/12/2014 11:26

15:30

Collected By:

Alan Adin

Date/Time sample received:

5/12/2014

Received by: Amy Jo

5/12/2014 16:40 Date/Time sample analyzed: Tech: SS

Units

Test Method

Parameter Fecal Coliform Test Result* 10

CFU/100mL

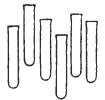
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID: 120973

Sample Number:

214790

Sample Location:

Site #7, grab

Sample Comment:

FC rec'd at 14.9 deg C.

Date/Time sample collected:

5/12/2014

12:25

Collected By: Alan Adin Received by: Amy Jo

Date/Time sample received:

5/12/2014

15:30

SS

Date/Time sample analyzed:

5/12/2014

16:40

Tech:

Parameter Fecal Coliform Test Resuit* < 10

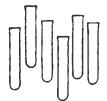
Units CFU/100mL **Test Method** SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

Attn: Alan Adin

420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

120973

Sample Number:

214791

Sample Location:

Duplicate, grab

Sample Comment:

FC rec'd at 14.4 deg C.

Date/Time sample collected:

5/12/2014

10:57

Collected By:

Alan Adin

Date/Time sample received:

Date/Time sample analyzed:

5/12/2014 5/12/2014 15:30 -16:40

Received by: Amy Jo Tech:

SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

10

CFU/100mL

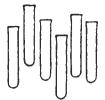
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

120973

Sample Number:

214905

Sample Location:

Blank-QC

Sample Comment:

FC blank plate run with 100 mL buffered rinse water.

Date/Time sample collected:

5/12/2014 16:40 Collected By:

Date/Time sample received:

5/12/2014

Received by: Amy Jo

16:40

5/12/2014 Date/Time sample analyzed:

16:40

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 1

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

				<u> </u>	<u> </u>			
Client:	City of Kings Attn: Alan A 420 Broadw Kingston			401	PO	#		
	oject Name: Location: omment:	Rondout Creek Site #1, grab						
Order ID	: 120973	Sample Number:	214784		s	ample Type:	Surface Wa	iter
Date/Tim 5/12/2014			5/ 12/2 014	e sample rec 15:3		Received by: Arny Jo		
Paramet	er:	Test F	Result	Units	Test Method	Test Da	ate/Time	Tech**
Solids, S	ettleable		< 0.1	mL/L	SM20 2540F	5/13/20	14 13:30	LAE
Total Sus	spended Solids	3	6	mg/L	SM20 2540 D	5/16/20	14	JFE
Results (Comment:	~						

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

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Total number of pages in this report, including chain of custody, is \underline{q}



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:	City of Kings Attn: Alan A 420 Broadw		Çe .					
	Kingston	NY	124	01	P	0#		
Sample I	oject Name: Location: omment:	Rondout Creek Site #2, grab		•				
Order ID	: 120973	Sample Number:	214785			Sample Type:	Surface Wa	iter
Sample (Collected By:	Alan Adin						
Date/Tim	e sample coll	ected:	Date/Time	sample rece	eived:	Received by:		
5/12/2014	4 11:10		5/12/2014	15:30	}	Amy Jo		
Sample (Comment: FC	rec'd at 14.6 deg (3.					
Paramet	er:	Test	Result	Units	Test Method	Test D	ate/Time	Tech**
Solids, S	ettleable		< 0.1	mL/L	SM20 2540F	5/13/20	14 13:30	LAE
Total Sus	spended Solids		5	mg/L	SM20 2540 D	5/16/20	114	JFE
Results (Comment:							

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

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Total number of pages in this report, including chain of custody, is



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 228-6536

CERTIFICATE OF ANALYSIS

Cilent:	City of Kings Attn: Alan A 420 Broadwa		æ				
	Kingston		1 12	2401	P	0#	
Client Pro Sample Lo		Rondout Creek Site #3, grab					
Order ID:	120973	Sample Number:	214786			Sample Type: Surface V	Vater
Date/Time 5/12/2014		Alan Adin ected: rec'd at 11.2 deg (5/12/2014	e sample r l 15	received: 5:30	Received by: Amy Jo	
Paramete	r:	Test	Result	Units	Test Method	Test Date/Time	Tech**
Solids, Se	ttleable		< 0.1	mL/L	SM20 2540F	5/13/2014 13:30	LAE
Total Susp	oended Solids		6	mg/L	SM20 2540 D	5/16/2014	JFE
Results C	comment:	us-					

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is 9



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client:		ston Engineers Offic	ce					
	Attn: Alan A							
	420 Broadway			104		. .		
	Kingston	N	124	101 	P	0# 		
Client Pro	oject Name:	Rondout Creek						
Sample L	ocation:	Site #4, grab						
Order co	mment:							
Order ID:	120973	Sample Number:	214787			Sample Type:	Surface Wa	iter
Sample C	collected By:	Alan Adin						
Date/Time	e sample coil	ected:	Date/Time	sample rece	ived:	Received by:		
5/12/2014	11:32		5/12/2014	15:30		Amy Jo		
Sample C	omment: FC	rec'd at 14 deg C.						
— Paramete	ır;	Test	Result	Units	Test Method	Test D	ate/Time	Tech*
Solids, Se	ttleable		< 0.1	mL/L	SM20 2540F	5/13/20	014 13:30	LAE
Total Susp	pended Solids	i	29	mg/L	SM20 2540 D	5/16/20	014	JFE
Results 0	comment:							
		0						
	ک	lus						

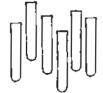
Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:	City of Kings Attn: Alan A 420 Broadw Kingston			101	P	O#		
	oject Name: Location:	Rondout Creek Site #5, grab						_
Order ID:	120973	Sample Number:	214788			Sample Type:	Surface Wa	iter
Date/Tim 5/12/2014		Alan Adin lected: Crec'd at 15.4 deg (5/12/2014	sample rec 15:3		Received by: Amy Jo		
				Units mL/L mg/L	Test Method SM20 2540F SM20 2540 D		ate/Time 014 13:30 014	Tech** LAE JFE

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Qdor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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Results Comment:

SMITH LABORATORY

ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6538

CERTIFICATE OF ANALYSIS

Client:	City of Kings Attn: Alan A	ston Engineers Offic din	æ	_				
	420 Broadw Kingston	ay NY	1240	1	P	P0#		
	oject Name: Location: omment:	Rondout Creek Site #6, grab				_		
Order ID	: 120973	Sample Number:	214789			Sample Type:	Surface Wa	ter
Date/Tim 5/12/2014	•	Alan Adin ected: rec'd at 14.3 deg (Date/Time s 5/12/2014	sample rec 15:3		Received by: Amy Jo		
Paramete Solids, Si	er:	Test	Result < 0.1	Units mL/L mg/L	Test Method SM20 2540F SM20 2540 D	,	ate/Time 014 13:30	Tech* LAE JFE

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:	City of Kings Attn: Alan A 420 Broadwa		C O					
	Kingston N		124	101	PO#			
Client Pro Sample L Order co		Rondout Creek Site #7, grab						
Order ID:	120973	Sample Number:	214790		_	Sample Type:	Surface Wa	iter
•	Collected By: e sample coll 1 12:25	Alan Adin ected:	Date/Time 5/12/2014	sample receiv	ed:	Received by: Amy Jo		
Sample C	Comment: FC	rec'd at 14.9 deg (C					
Paramete	er:	Test	Result	Unite	Test Method	Test Da	te/Time	Tech**
Solids, Se	ettleable		< 0.1	mL∕L	SM20 2540F	5/13/201	4 14:50	LAE
Total Sus	pended Solids		5	mg/L	SM20 2540 D	5/16/201	14	JFE
Results 0	Comment:	0						

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:	City of Kings Attn: Alan A 420 Broadwa Kingston			101	F	°O#		
	oject Name: Location: omment:	Rondout Creek Duplicate, grab						
Order ID:	120973	Sample Number	: 214791			Sample Type:	Surface Wa	ater
Sample (Collected By:	Alan Adin						
Date/Tim	e sample coll	ected:	Date/Time	sample red	eived:	Received by:		
5/12/2014	10:57		5/12/2014	15:3	0	Amy Jo		
Sample (Comment: FC	rec'd at 14.4 deg (C.					
Paramete	<u></u>	Test	Result	Units	Test Method	Test D	ate/Time	Tech**
Solids, Se	ettleable		< 0.1	mL/L	SM20 2540F	5/13/20	14:50	LAE
Total Sus	pended Solids		6	mg/L	SM20 2540 D	5/16/20)14	JFE
Results	Comment:	0						

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

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SMITH LABO	DATORV				CH	HAIN OF CUSTODY Login Revi					Leview: 0			1
4 Scenic Drive	KATOKI						01 00.	31021		Amt Du	e:			
Hyde Park, NY	12538-1313	Turnaround Time	e: Standa	ard V	7			Copy results	s to	Amt Pai	d:]
Phone: 845-22		RUSH (Rusi				Local Health Dept.				Pmt Me	thod:			1
Fax: 845-22		** Date report re				Yes No V				Receipt	Receipt No:			1
	_CITY OF KINGS			Client					Project/Facility Name:l			_		
Mailing Address	s:420 BROAD	WAY		Client	Fax No.	.:		I	ocation:					
KINC	GSTON, NY 12401								PWS Fed ID No: N	Y				
Order ID No:	CLI	IENT: COMPLE	TE THE				ATION IN	THE SPAC	E PROVIDED BELOW		LA	B USE ON	110	1 🔿
120973		ntification & le Point	Matrix	Grab	Check O	ne) First	Treatment Type &	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp,	at rao	San
Sample No:					# hrs	Draw	Residual	5.12.14		0.1177.10		Deg C	Y/N	15.7
21478446	SITE#1		SW	Х				10:55A	SS/TSS	2-1LPLAS	Y	16.8	N] ′
1785	SITE #2		SW	Х				11:10 A	SS/TSS	2-1LPLAS		14.6/13		
786	SITE #3		SW	X				11:19 A	SS/TSS	2-1LPLAS		15.6/17.4		
787	SITE #4		SW	Х				11:32A	SS/TSS	2-1LPLAS		14.2/48		
788	SITE #5		SW	Х				11:41 A	SS/TSS	2-1LPLAS		18.9/118		
789	SITE #6		sw	Х				11:26A	SS/TSS	2-1LPLAS		15.3/162		1
790	SITE #7		sw	Х				12:25P	SS/TSS	2-1LPLAS		18.1/2		1
191	DUPLICATE		sw	х				10:57A	55/T55	2-1LPLAS.		16.3/40	لي ا	1
my knowledge, 12	nc) ALAN A	ponsible for payment, i	mless other p	payment	апапдет	Title) È	NGINES proved in adv	ZNG TEC	I hereby affirm that the is	nformation above is tr	ue and co	omplete to th	c best of	f
Sample Relinquishe	ed By: ALAN	ADIN			Receiv	ed By:		Ana		Date:	1. 8	_Time:		_
Sample Relinquishe	ed By:			-	-	_	Ву:С	THE		Date: 5/12	414	_Time:	٥)
	d met the following requ	airements				Comm	ents:							_
The second second	ion: NA Yes No _		3126				_							_
Control of the Control of the	ation NA Yes No _			17.5	1	-					-			_
Other	× Yes No_		V D					-		A	>	-	2	,
- Julie			75-454	256	Arresta	Smith La	aboratory Cha	in of Custody R	ev. 4, 2/14 Data Re	eview: Mgr		Date	11	_

SAMPLING EVENT #3

AJA

Date: 5.16.14 Page 1 of 1

Sampling Team:

litials

Weather:

A-ADIN/R SWENSON/R SCHEFFEL

OVERCAST - LIGHT RAIN

Temperature:

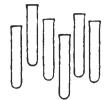
Direction of Flow:

OUT - EASTERLY/LOW TIDE

ROUDOUT CREEK

	٠ ٤			POODS I OFFICE
Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE I - MID CREEK. N 250 YOS UPSTREAM OF WILD'AR ONTRALL - PONDOUT	10:05 A - LAT - 41.90 7 LONG - 74.00 9	DO 89 mg/L temperature /9.2°C	Grease None Floatables None Odors None	DRY DOCK - TI DE LOW - OUT EASTERLY
#2 - MID Creek FONDONT UPSPEAM OF BLOCK PK.	LAT 91.91 Z LONG 73.99 Z	temperature 19.1°C	Grease NOWE Floatables POLLEU? Odors NOWE	TIDEOUT-EASTERLY SO YOS SONTHERLY OF ISLAND DOCK CULVERTS.
43 MID REMONT CREEK ~ 150 YDS USTREAM OF OLD BRIDGE	LAT 41.915 LONG 73.985	temperature 19.18	Grease NOVE Floatables NOVE Odors NOVE	TIDE OUT EASTERLY 25 YDS GOVTHERLY OF STEEL BOILER PROTEUDING FROM MAKER MEAR ISLAND DOCK BULKHEAD.
#4 MID ROBOUT CREEK ~ ZOO YOS DOWNSTREAM OF WEW BRIDGE	LAT 41. 913 LONG 73. 974 10:30 A	temperature /9.0°C.	Grease NONE Floatables NONE Odors NONE	SO YDS SI ERLY OF STEEL H = PATIOT
#5 MID ROWGOUT CREEK - WETREAM OF KLAUGTON PT. PARK	LAT 4), 923 LONG 73.970 10:45A.	temperature 19 19.0%		TIDEOUT EAS Y 50 YDS SON MY OF GAS LINE ISSING SIGN.
HOWID ROUDET CREEK - UNDER NEW BRIDGE	LONG 73.981 10:35 A.	temperature 19.0°C	Grease NowE Floatables NOVE Odors NOVE	TIDE OVE FAS Y 50 YOS GOV BY OF CLEARWATE SHED OUBLE DES.
#7 UPSTREAM OF EDDYVILLE DAM NYSDEC BOAY LAUNCH PEEXCOUS RD TWN OF UNSTER.	LAT 41.885 LONG 74.030 //:10A.	temperature /9.3°C	Grease NOVE FloatablesNOVE Odors NOVE	ROWDOUT CREEK - OF SO YOS SOUTHERLY OF MYSDEC BOAT LAUNCH - UNEFFECTED BY T
WUCATE.	SEE SITE #2.	DO temperature	Grease Floatables Odors	SEE SITE # 2 ABOVE





ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO #

Client Project Name:

Rondout Creek

Sample Type:

Drinking Water

Order comment:

Order ID:

121143

Sample Number:

215177

Sample Location:

Site #1, grab

Sample Comment:

FC rec'd at 10.3 deg C.

5/16/2014

Date/Time sample collected:

10:05

Collected By:

Ralph Swenson

Date/Time sample received:

5/16/2014

14:10

Received by:

Amy Jo

Date/Time sample analyzed:

5/16/2014

16:10

Tech: SS

Test Method

Parameter Fecal Coliform Test Result* 50**

Units CFU/100mL

SM 18 9222D

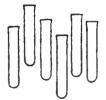
*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

**Sample analyzed 5 mins outside of 6 hr. holding time.

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

12401

PO#

Client Project Name:

Rondout Creek

Sample Type:

Drinking Water

Order comment:

Order ID:

121143

Sample Number:

215178

Sample Location:

Site #2, grab

Sample Comment:

FC rec'd at 10.9 deg C.

Date/Time sample collected:

5/16/2014

10:15

Collected By:

Ralph Swenson

Date/Time sample received:

5/16/2014 5/16/2014

Date/Time sample analyzed:

14:10 16:10

Amy Jo Received by: Tech: SS

Test Method

Parameter

Test Result*

Units

SM 18 9222D

Fecal Coliform

80

CFU/100mL

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by/Lab Manager, ELAP Lab ID #10924

19-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Drinking Water

Order comment:

Order ID:

121143

Sample Number:

215179

Sample Location:

Site #3, grab

Sample Comment:

FC rec'd at 12.8 deg C.

Date/Time sample collected:

5/16/2014 10:21

Collected By:

Ralph Swenson

Date/Time sample received: Date/Time sample analyzed: 5/16/2014 5/16/2014 14:10 16:10

Received by:

Amy Jo SS

Parameter

Test Result*

Units

Tech:

Test Method

Fecal Coliform

40

CFU/100mL

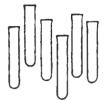
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

PO# Kingston 12401

Client Project Name:

Rondout Creek **Drinking Water**

Sample Type: Order comment:

Order ID:

121143

Sample Number:

215180

Sample Location:

Site #4, grab

Sample Comment:

FC rec'd at 13.4 deg C.

Date/Time sample collected:

5/16/2014 10:30

Collected By:

Date/Time sample received:

Ralph Swenson

5/16/2014 5/16/2014 14:10

Received by:

Amy Jo

Date/Time sample analyzed:

16:10

Tech: SS

Test Method

Parameter Fecal Coliform Test Result* 10

Units CFU/100mL

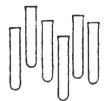
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Drinking Water

Order comment:

Order ID:

121143

Sample Number:

215181

Sample Location:

Site #5, grab

Sample Comment:

FC rec'd at 13.9 deg C.

Date/Time sample collected:

5/16/2014

10:45

Collected By:

Ralph Swenson

Date/Time sample received:

5/16/2014

14:10

Received by: Tech: SS

Amy Jo

Date/Time sample analyzed:

5/16/2014

16:10

Units

Test Method

Fecal Coliform

Parameter

Test Result* 30

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

12401

PO#

Client Project Name:

Rondout Creek

Sample Type:

Drinking Water

Order comment:

Order ID:

121143

Sample Number:

215182

Sample Location:

Site #6, grab

Sample Comment:

FC rec'd at 13.7 deg C.

Date/Time sample collected:

10:35

Collected By:

Ralph Swenson

5/16/2014

Received by: Amy Jo

Date/Time sample received: Date/Time sample analyzed:

5/16/2014 5/16/2014 14:10 16:10

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

20

CFU/100mL

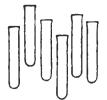
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Drinking Water

Order comment:

Order ID:

121143

Sample Number:

Sample Location:

215183 Site #7, grab

Sample Comment:

FC red' at 12.9 deg C.

Date/Time sample collected:

5/16/2014 11:09

:09

Collected By: Alan Adin

Date/Time sample received:

5/16/2014

14:10

Received by: Amy Jo

Date/Time sample analyzed:

5/16/2014 16:10

Tech: SS

:

Parameter

Test Result*

Units

Test Method

Fecal Coliform

10

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

19-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Drinking Water

Order comment:

Order ID:

121143

Sample Number:

215184

Sample Location:

Duplicate, grab

Sample Comment:

FC rec'd at 15.8 deg C.

Date/Time sample collected:

5/16/2014

10:15

Collected By:

Raiph Swenson

Date/Time sample received:

5/16/2014 5/16/2014 14:10

Received by:

Amy Jo

Date/Time sample analyzed:

16:10

Tech: SS

Units

Parameter Fecal Coliform **Test Result*** 90

CFU/100mL

Test Method SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

121143

Sample Number:

215190

Sample Location:

Blank-QC

Sample Comment:

FC blank run with 100 mL buffered rinse water.

Date/Time sample collected:

5/16/2014 16:10 Collected By:

Date/Time sample received:

16:10

Received by: Amy Jo

Date/Time sample analyzed:

5/16/2014 5/16/2014

16:10

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 1

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:	City of Kings	ston Engineers Off	ice					
	Attn: Alan A	Adin						
	420 Broadw	ay						
	Kingston	N	Y 12	2401	F	PO#		
Client Pro	oject Name:	Rondout Creek				•		
Sample L	ocation:	Site #1, grab						
Order co	mment:							
Order ID:	121143	Sample Number	r: 215177			Sample Type: S	Surface Wa	ater
Sample C	ollected By:	Ralph Swens	on					
	e eample col		Date/Tim	e sample rec	eived:	Received by:		
5/16/2014	10:05		5/16/2014	4 14:1	0	Amy Jo		
Sample C	omment: FO	C rec'd at 10.3 deg	C					
Paramete	r:	Test	Result	Units	Test Method	Test Dat		Tech*⁴
Solids, Se	ttleable		< 0.1	mL/L	SM20 2540F	5/16/201	4 16:45	LAE
Total Susp	pended Solids	3	4	mg/L	SM20 2540 D	5/20/201	4	LAE
Results C	omment:							
		500						
	-	3000						
Reviewed	i by: Lab Mai	nager, ELAP Lab I	ID #10924	_			10-Jun-1	4
0.2 mg/L; estimated mg/kg=mi NTU=Nep Seturation umho/cms	D=Elevated below quanti illigrams per k shetometric Te i Index; SU=S =micromhos p	reporting limit; Est tation limit; MCL=t illogram dry weight urbidity Units; PtCo Standard pH Units;	=Estimated New York S ; mg/L=mil p=Platinum TON=Thre Value abov	d Value; H=Sa State Maximum Iligrams per Li Cobalt Units; eshold Odor N ee quantitation	degrees Celsius; B= ample received over a n Contaminant Level; ter; mL/L=milliliters p O=Not all OC data r umber at 44.5 degree range; *ELAP/NELA	analysis holding tim MDL=Method Det per Liter; ND=Not E net acceptance crit es C, ug/L-microgra	ie; J=Resu ection Limi Detected; eria; St = ams per Lit	ult it; ter;
Smith Lat	oratory is app	roved as an Enviro	nmental Tes	iting Laboratoi	ry in conformance with	h the National Envir	onmental L	aboratory

Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct. This report must be reproduced in its entirety.



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

			_	·	01 7 (10 (210)			
Cllent:	City of Kings Attn: Alan A	ston Engineers Offic	ce					
	420 Broadw	/av						
	Kingston	N	12	401	P	0#		
Client Pro Sample L Order co		Rondout Creek Site #2, grab						
Order ID:	121143	Sample Number	215178			Sample Type:	Surface Wa	ter
Sample C	clected By:	Raiph Swenso	on				_	
Date/Time	e sample coll	ected:	Date/Time	sample red	celved:	Received by:		
5/16/2014	10:15		5/16/2014	14:1	0	Amy Jo		
Sample C	comment: FC	rec'd at 10.9 deg (C					
Paramete	r:	Test	Result	Units	Test Method	Test D	ate/Time	Tech**
Solids, Se	ttleable		< 0.1	mL/L	SM20 2540F	5/16/20	16:45	LAE
Total Susp	cended Solids	;	4	mg/L	SM20 2540 D	5/20/20	114	LAE
Results C	omment:							
		Jens.	-					
Reviewed	l by: Lab Mar	nager, ELAP Lab if	D #10924				10-Jun-14	4

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobait Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TQN=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is	- [



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

					0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,			
Client:	City of King	ston Engineers Offic	ce					
	420 Broadw	,						
	Kingston	N)	12	401	Р	O #		
Client Pro	ject Name:	Rondout Creek	_				_	
Sample L	ocation:	Site #3, grab						
Order co	mment:							
Order ID:	121143	Sample Number	215179			Sample Type:	Surface Wat	ter
Sample C	oilected By:	Ralph Swens	on	_				
Date/Time	sample col	lected:	Date/Time	e sample re	celved:	Received by:		
5/16/2014	10:21		5/16/2014	14:	10	Amy Jo		
Sample C	omment: F0	C rec'd at 12.8 deg (D .					
Paramete	r:	Test	Result	Units	Test Method	Test D	ate/Time	Tech**
Solids, Se	ttleable		< 0.1	mL/L	SM20 2540F	5/16/20	014 16:45	LAE
Total Susp	ended Solids	3	2	mg/L	SM20 2540 D	5/20/20)14	LAE
Results C	comment:							
		00 =						
	_	XXXX						
Davilerus d	Lhui Lah Mai	SOOR ELADIANI	2 #4 0024	_			10 lun 14	

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank deptetion was greater than 0.2 mg/L; D=Elevated reporting limit, Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Conteminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = startation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is	,	



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

			-1 \ 1 11	10/1121	<u> </u>			
Client:	City of Kings Attn: Alan A 420 Broadw Kingston			2401	Pi	0#		
Client Pro Sample Lo		Rondout Creek Site #4, grab				-		
Order ID:	121143	Sample Number:	215180			Sample Type: Sc	rface Wate	er
Date/Time 5/16/2014			Date/Tin 5/16/201	ne sample rec 4 14:10		Received by: Amy Jo		
Paramete Solids, Se Total Susp			Result < 0.1 4	Units mL/L mg/L	Test Method SM20 2540F SM20 2540 D	Test Date 5/16/2014 5/20/2014	16:45	Tech** LAE LAE
Results C	comment:	J.u.T						
Reviewed	l by: Lab Mar	nager, ELAP Lab ID	#10924	_			10-Jun-14	

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit, Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is	



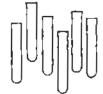
ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

		QL	_ (\	OKIL	OI AINALI OI	_		
Cilent:	City of Kings Attn: Alan A 420 Broadw Kingston			401	P	0#		
Client Pro Sample La Order col		Rondout Creek Site #5, grab						
Order ID:	121143	Sample Number:	215181			Sample Type:	Surface Wa	iter
Sample C	ollected By:	Ralph Swenso	n					
5/16/2014	,		5/16/2014	sample rec 14:1		Received by: Amy Jo		
Parameter	r;	Teat	Result	Units	Test Method	Test D	ate/Time	Tech**
Solids, Se	ttleable		< 0.1	mL/L	SM20 2540F	5/16/20	16:45	LAE
Total Susp	ended Solids	i	5	mg/L	SM20 2540 D	5/20/20	114	LAE
Results C	omment:							
	_	glut						
Reviewed	by: Lab Mar	nager, ELAP Lab II) #10924	_			10-Jun- 1	4

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation timit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=millititers per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units, Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report periodns only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct. This report must be reproduced in its entirety.



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

		0-		V/ (1 - \	31 7 (14) (E 1 O			
Client:	City of Kings Attn: Alan A 420 Broadw Kingston			401	P	0#		
Client Pro Sample Lo Order col		Rondout Creek Site #6, grab		_				
Order ID:	121143	Sample Number:	215182			Sample Type:	Surface Wa	ater
Date/Time 5/16/2014			Date/Time 5/16/2014	sample rec 14:10		Received by: Amy Jo		
Paramete	r:	Test F	Result	Units	Test Method	Test D	ate/Time	Tech**
Solids, Set	ttleable		< 0.1	mL/L	SM20 2540F	5/16/20	14 16:45	LAE
Total Susp	ended Solids	.	< 1	mg/L	SM20 2540 D	5/20/20)14	ĻAE
Results C	omment:							
	_	glus						
Reviewed	l by: Lab Mar	nager, ELAP Lab ID	#10924				10-Jun-1	14

Key: <= tess than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kitogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

				CATE	OF ANAL 1313	·	
Client:	City of King Attn: Alan / 420 Broadw Kingston			401	PO	*	
Client Pro Sample La Order con		Rondout Creek Site #7, grab	-			-	
Order ID:	121143	Sample Number	: 215183			ample Type: Surface W	/ater
•	ollected By:	Ralph Swenso		e sample red	ceived:	Received by:	
5/16/2014	-		5/16/2014			Amy Jo	
Sample C	omment: FC	C red' at 12.9 deg C					
Paramete	r:	Test	Result	Unite	Test Method	Test Date/Time	Tech**
Solids, Se	ttleable		< 0.1	mL/L	SM20 2540F	5/16/2014 17:05	LAE
Total Susp	ended Solids	3	3	mg/L	SM20 2540 D	5/20/2014	LAE
Resulte C	comment:						
	_كر	Sur					
Reviewed	l by: Lab Mar	nager, ELAP Lab II	D#10924			10-Jun-	14

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 rmg/L, D=Elevated reporting limit, Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this

analyte; **ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

			EKIIF	ICATE	OF ANAL	.1010		
Client:	City of Kings Attn: Alan A 420 Broadw		ce					
	Kingston	N.	Y 12	401		PO#		
Client Pro	ject Name:	Rondout Creek						
Sample Lo Order cor		Duplicate, greb						
Order ID:	121143	Sample Number	: 215184			Sample T	ype: Surface W	ater
•	ollected By:	Raiph Swens	on			_	_	
	sample coll	ected:		e sample re		Received	i by:	
5/16/2014			5/16/2014	14:	10	Amy Jo		
Sample C	omment: FC	rec'd at 15.8 deg	C					
Parameter	r:	Test	Result	Units	Test Met	thod T	est Date/Time	Tech**
Solids, Sai	ttleable		< 0.1	mL/L	SM20 25	40F 5	/16/2014 17:05	LAE
Total Susp	ended Solids		2	mg/L	SM20 25	40 D 5	/20/2014	LAE
Results C	omment:							
		Deus						
Reviewed	by: Lab Man	ager, ELAP Lab II	D #10924				10-Jun-	14
0.2 mg/L; estimated mg/kg=mil NTU=Nepl Saturation umho/cm=	D=Elevated r below quantit ligrams per ki helometric Tu Index; SU=S micromhos p	Analysis performe eporting limit; Est- ation limit; MCL=N ilogram dry weight; rbidity Units; PtCo tandard pH Units; er centimeter; V=\ sted for sub-contra	=Estimated lew York Si mg/L≂mill =Piatinum TQN=Thre /alue above	Value; H=S tate Maximus igrams per L Cobalt Units shold Qdor N a quentitation	ample received in Contaminant L iter: mL/L=millifi ; Q=Not all QC o lumber at 44.5 d	over analysis hold Level: MDL=Meth iters per Liter; NI data met acceptar legrees C; ug/L-r	ding time; J≖Res nod Detection Lim D≖Not Detected; nce criteria; SI ≕ nicrograms per Li	ult iit; iter;
Accreditat	ion Conference	roved as an Enviror e (NELAC) Standar Yormation supplied	ds. This tes	it report perto	tins only to the al	bove items analyze	ed on this sample a	u received
		Total number of	pages in th	is report, inc	luding chain of c	sustody, is	_1	

SMITH LABORATO 4 Scenic Drive		CHAIN OF CUSTODY Copy results to				Login Review: Amt Due: Amt Paid:						
Hyde Park, NY 1253	88-1313 Turnaround Time								Pmt Method :			
Phone: 845-229-6536			ge appl	ies)			Local Health		Receipt			$\overline{}$
Fax: 845-229-6538	8 ** Date report re	questea:		<u> </u>			Yes 1	ND V	Receipt	110.		
Client Name:CIT	Client Name:CITY OF KINGSTON Client Pho						E	Project/Facility Name:	RONDOUT CRE	EK	_	
Mailing Address:	420 BROADWAY		Client	Fax No.	.: 		I	ocation:		<u>·</u>		
KINGSTO	N, NY 12401		Сору І	Report T	To:R	ALPH SWI	ENSON	PWS Fed ID No: 1	NY			
LAB USE ONLY	CLIENT: COMPLE	TE THE	SAMP	LE IN	FORM!	TION IN	THE SPAC	E PROVIDED BELOW		LA	B USE O	NLY
Order ID No: 121143 Sample No:	Sample Identification & Sample Point	Matrix	(C Grab	Comp	ne) First Draw	Treatment Type & Residual	Date/Time Sampled	Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at:Lab Y/N
2151773 SITE	E #1	sw	Х				10:05	SS/TSS	1-1LPLAS	Y	11.7/10.3	N
178 \$ SITE		sw	X				1015	SS/TSS	1-ILPLAS 1/2L PLAS		11/11/	
1778 SITE		sw	X				1021	SS/TSS	1-ILPLAS	\sqcup	10.3	
(20 site		SW	X				1030	SS/TSS	1-ILPLAS 1/2 L PLAS		14.2/106	
1814 SITE		wz	X				1045	SS/TSS	2-ILPLAS 1/2 L PLAS	4	11.7/10.5	
182 % SITE		SW	Х			<u> </u>	1035	SS/TSS	1LPLAS 1/2 L PLAS	\sqcup	1/101	
1831 SITE		SW	X				1109	SS/TSS	1-ILPLAS		15/6-1	1 11
1842 DUP	PLICATE	sw	Х				1015	SS/TSS	2-TLPLAS	1	13.1/15.8	4
Sampled By: (Name) AL	PH SWENSON - CITY & AN ADIN ENGINEE on that I am responsible for payment, ur	PING	TECH	(Tide)	proved in adv	ance by Smith	I hereby affirm that the Laboratory.	information above is tr	nie and o	omplete to t	he best of
Sample Relinquished By:	ALAN ADIN			Receive	ed By:				Date:	. —	_Time:	
Sample Relinquished By:				Receive	ed at Lab	Ву:	the		Date: 35/	16/19		410
Sample(s) received met the Thermal Preservation: No.	<u></u>				Comm							
Chemical Preservation No.	\sim											
Correct Bottle Type	(Yes)No								<u>. </u>			
Other					Smith La	boratory Chai	n of Custody R	ev. 4. 2/14 Data R	Review: Mgr	X	Date	~

ttach nt 1 - Sampling Event Summary Sheet

Initials: AA

Date: 5.20 -14____

Page ___ of ___

Sambling Team:

Weather:

J. PODESZEDLIK/A. Adin /A. Windell

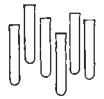
clear

Temperature:

Direction of Flow:

OUT EASTERLY

Sampling Location	Time	Field Parameter	Physical Observations	
#1 AID-POMBOIT OREEK-250 YDS WSDREAM OF	LAT 41.906 LONG 74.004	temperature 17.7°C	Grease NOME Floatables NATWAL	TO E OVT - EASTERLY OF 10 YOS ESTERLY OF FRENKY DRY DOCK
WILBUR ONT FALL	10:43A		Odors NOW	(STICKS, LEAVES, VEGETATIVE MATTER)
#2 MID-ROMONT CREEK. UPSREAM OF BLOCKPK.	LAT 41.912 LONG 73.992	temperature 17.2°C	Grease NOWE Floatables ADVRAL	SOYDS SOTTHERLY OF CAUSELAN COLLECTS
#3 MID CREEK. 1150 YOS WSTREAM. OF MOLO BRIDGE	10:55 Ayn LAT 41.915 LONG 73.985 11:05A	temperature 16.9 °C	Odors NOWE. Grease NOWE Floatables MODELATE Odors	TIDE OUT FASTERLY 25 YOS SOUTHERLY OF STEEL BOILER PROTECTION OF FROM MATER. WEAR SECTION OF BULKHEAD
LZOC YDS DOWN ; PREAM OF NEW BRIDGE	LAT A1. 919 LONG 73,479 11-20A,	temperature / 6.8 °C	Grease Now. Floatables Low Odors Now.	SO YPS SOUTH Y OF STEELHOUSE PATIO
#5 MID CREEK. UPSPEARN OF KINGSTON PT. PK,	LAT 41.922 LONG 73.970 11:30A.	DO 9.6 ~ 1/2 temperature 16.9 ° C	Grease Nove Floatables Nove	SO YOS SOUT LY OF GAS LINE OCCUSING SI
#G MID CREEK. UNDER NEW BRIDGE	LA+ A1.918 LOUE 73 981 11:12A.	temperature 16.5.°C	Grease NOME Floatables HEAVY: Odors NOWE	MID CREEK. (05 SCHEZLY OF CLEARVATER 30 DNBLE SLIDE DOCES
H7 UPS PREAMOR EDDYNILLE DAMO C MSDEC BOAT LANNCH	LONG. 74.030 12:05P	DO 8.8 ~9/2 temperature /8.1°C	Grease NoNE Floatables NoNE Odors NoNE	END OF BOAT LAUNCH - UND CREEK/SITE UNEFFECTED BY TIDE
AB DUPE	SITE#3	temperature	Grease Floatables Odors	SITE#3



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

121203

Sample Number:

215283

Sample Location:

Site #1, grab

Sample Comment:

FC rec'd at 15.1 deg C.

Date/Time sample collected:

5/20/2014 10:43 Collected By:

Alan Adin

Date/Time sample received:

5/20/2014

15:45

Amy Jo

Date/Time sample analyzed:

5/20/2014 16:30 Received by: Tech:

SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

160

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PQ#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

121203

Sample Number:

215284

Sample Location:

Site #2, grab

Sample Comment:

FC rec'd at 16.1 deg C.

Date/Time sample collected:

10:55

Collected By:

Alan Adin

Date/Time eample received:

5/20/2014 5/20/2014

Received by:

Amy Jo

Date/Time sample analyzed:

5/20/2014

15:45 16:30

Tech: SS

Test Method

Parameter Fecal Coliform Test Result* 190

Unite CFU/100mL

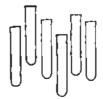
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

by: 140 Manager, ELAP Lab ID #10924

23-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

121203

Sample Number:

215285

Sample Location:

Site #3, grab

5/20/2014

Sample Comment:

FC rec'd at 21.7 deg C.

Date/Time sample collected:

11:05

Collected By:

Alan Adin

Date/Time sample received:

5/20/2014

15:45

Amy Jo

Date/Time sample analyzed:

5/20/2014 16:30 Received by: Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

100

CFU/100mL

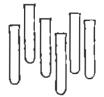
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Lab Manager, ELAP Lab ID #10924

23-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Cilent:

> Attn: Alan Adin 420 Broadway

Kingston NY 12401

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

121203

Sample Number:

215286

Sample Location:

Site #4, greb

Sample Comment:

FC rec'd at 18.7 deg C.

Date/Time sample collected:

11:20

Collected By:

Alan Adin

Date/Time sample received:

5/20/2014 5/20/2014 15:45

Received by:

Amy Jo

Date/Time sample snalyzed:

5/20/2014

16:30

Tech:

PQ#

Test Method

Perameter Fecal Coliform Test Result* 110

Units CFU/100mL

SM 16 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO #

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

121203

Sample Number:

215287

Sample Location:

Site #5, grab

Sample Comment:

FC rec'd at 13.9 deg C.

Date/Time sample collected:

5/20/2014 11:30

Collected By:

Alan Adin

Date/Time sample received:

5/20/2014

11:30 15:45

Received by: Amy Jo

Date/Time sample analyzed:

5/20/2014 16:30

Tech: SS

Test Method

Parameter Fecal Coliform Test Result* 50 Units CFU/100mL

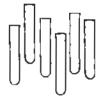
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab/Manager, ELAP Lab ID #10924

23-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

121203

Sample Number:

215288

Sample Location:

Site #6, grab

Sample Comment:

FC rec'd at 20.7. deg C.

Dete/Time sample collected:

5/20/2014

11:12 15:45

18:30

Collected By: Received by: Alan Adin Amy Jo

Dete/Time sample received: Dete/Time sample analyzed: 5/20/2014 5/20/2014

Tech: SS

PO#

Test Method

Parameter Fecal Coliform Test Result*

Units
CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston 12401

PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment.

Order ID:

121203

Sample Number:

215289

Sample Location:

Site #7, grab

Sample Comment:

FC rec'd at 15.1 deg C.

Date/Time sample collected:

12:05

Collected By:

Alan Adin

Date/Time sample received:

5/20/2014 5/20/2014

15:45

Received by: Amy Jo

16:30 Tech: SS

Date/Time sample analyzed:

5/20/2014

Test Method

Parameter Fecal Coliform Test Result* 150

Units CFU/100mL

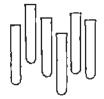
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

121203

Sample Number:

215290

5/20/2014

Sample Location:

Duplicate, grab

Sample Comment:

FC rec'd at 21.1 deg C.

Date/Time sample collected:

5/20/2014 11:05

Collected By:

Alan Adin

Date/Time sample received:

5/20/2014

Amy Jo

Date/Time sample analyzed:

15:45

Received by: Tech: SS

Parameter

Test Result*

16:30.

Unita

Test Method

Fecal Coliform

60

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

12401 NY

PO#

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

121203

Sample Number:

Sample Location:

215309 Blank-QC

Sample Comment:

Rinsed with 100 mL buffered rinse water.

Date/Time sample collected:

5/20/2014 16:30 Collected By:

Date/Time sample received:

16:30

Date/Time sample analyzed:

5/20/2014

Received by: Amy Jo SS

5/20/2014 16:30 Tech:

Test Method

Parameter Fecal Coliform Test Result* < 1

Units CFU/100mL

SM 18 9222D

*Bactariological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12536 (845) 229-6538

CERTIFICATE OF ANALYSIS

					3. ; (1) (<u>2</u> . (3)			
Client:	City of Kings Attn: Alan A 420 Broadwi Kingston	•		401	Pi	0 # PO#000203	00-01	
Client Pro Sample L Order co		Rondout Creek Site #1, grab						
Order ID:	121203	Sample Number:	215283			Sample Type:	Surface Wat	ter
Date/Time 5/20/2014			5/20/2014	e sample rec 15:4		Received by: Amy Jo		
Paramete	r:	Test F	Result	Units	Test Method	Test Da	te/Time	Tech**
Solids, Se	ttleable		< 0.1	mL/L	SM20 2540F	5/21/201	14 11:05	LAE
Total Susi	pended Solids		5	mg/L	SM20 2540 D	5/21/20	14	LAE
Results C	omment:							
	Il	W						
Reviewed	by: Lab Mar	ager, ELAP Lab ID	#10924				09~Jun-14	4

Key: <= less than; A=Analysis performed over holding time, C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L, D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit, MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units, PtCo=Platinum Cobalt Units, Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Velue above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

Total number of pages in this report, including chain of custody, is	 _



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Cilent:	, .	ton Engineers Offic	æ				
	Attn: Alan A						
	420 Broadwe	•					
	Kingston	NY	1;	2401	PO#	# PO#00020300-0	1
Client Pro	ject Name:	Rondout Creek					
Sample L	ocation:	Site #2, grab					
Order co	mment:						
Order ID:	121203	Sample Number:	215284	,	Si	ample Type: Surfa	ace Water
Sample C	collected By:	Alan Adin					
Date/Time	sample colle	ected:	Date/Tim	ne sample rec	eived: F	Received by:	
5/20/2014	10:55		5/20/201	4 15:4	5 A	lmy Jo	
Sample C	omment: FC	rec'd at 16.1 deg 0	.				
Paramete	r;	Test	Result	Units	Test Method	Test Date/T	ime Tech"
Solids, Se	ttleable		< 0.1	mL/L	SM20 2540F	5/21/2014 1	11:05 LAE
Total Susp	pended Solids		7	mg/L	SM20 2540 D	5/21/2014	LAE
Results C	omment:						
	Sl	2ns					
Paviewed	(by: lab Man	ager, ELAP Lab IC	<u></u>			09	9-Jun-14
	,			ding time. C=	degrees Celsius; B=BOI		
ney. ¬ -	iess man, A-	CAIDINGS HOLIOLILIES	2401 1101	and much car	acdiese ocisine' p-por	a pigur debierou m	as Siente, men

Key: <= less than, A=Analysis performed over holding time. C#degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L, D=Elevated reporting limit. Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit, MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight, mg/L=milligrams per Liter, mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all 0C data met acceptance criteria; S1 = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=mucromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client:	City of Kings Attn: Alan A 420 Broadw Kingston			101	P	O# PO#00020	300-01	
Client Pro Sample L Order co		Rondout Creek Site #3, grab						
Order ID:	121203	Sample Number:	215285			Sample Type:	Surface Wa	ster
Date/Time 5/20/2014		Alan Adin ected: rec'd at 21.7 deg (5/20/2014	sample rece 15:45		Received by: Amy Jo		
Paramete	nc:	Test	Result	Units	Test Method	Test D	ate/Time	Tech*
Solids, Se	Hleable		< 0.1	mL/L	SM20 2540F	5/21/20	14 11:05	LAE
Total Susp	pended Solids	i	2	mg/L	SM20 2540 D	5/21/20	114	LAE
Results C	comment:							
	Sl	- 200						

Reviewed by: Lab Manager, ELAP Lab ID #10924

)9-Jun-14

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L, D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units, PtCo=Platinum Cobelt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

	City of Kings	ston Engineers Of	rice				
	Attn: Alan A	Adin					
	420 Broadw	ay					
	Kingston	N	IY 12	2401	PO#	PO#00020300-01	
Client Pro	oject Name:	Rondout Creek					
Sample L	ocation:	Site #4, grab					
Order co	mment:						
Order ID:	121203	Sample Numbe	r: 21 528 6		Sa	mple Type: Surface Wa	eter
Sample C	collected By:	Alan Adin					
Date/Time	e sample coll	ected:	Date/Tim	e sample rec	sived: R	eceived by:	
5/20/2014			5/20/2014	4 15:48	A A	my Jo	
Sample C	Comment: FC	C rec'd at 18.7 deg	; C		<u>-</u>		
Paramete	er:	Tes	t Result	Units	Test Method	Test Date/Time	Tech**
Solids, Se	ettleable		< 0.1	mL/L	SM20 2540F	5/21/2014 12:15	LAE
Total Sus	pended Solids	S	6	mg/L	SM20 2540 D	5/21/2014	LAE
Results C	Comment:						
	0 ()					
		لسة					
Reviewed	d by: Lab Mar	nager, ELAP Lab	ID #10924			09-Jun-1	14
Key: <=	less than; A	=Analysis perform	ed over hold	ding time; C≖c	lagrees Celsius; B=BOD	blank depletion was grea	eter than
0.2 mg/L,	D≍Elevated	reporting limit; Es	t≔Estimated	Value: H=Sa	mple received over analy	ysis holding time; J=Resu L=Method Detection Lim	uit ir
estimateo mg/kg=m	illigrams per k	allogram dry weigh	t, mg/L=mil	ligrams per Lil	er; mL/L=milliliters per L	iter; ND=Not Detected;	м.
NTU=Nec	phelometric Tu	rbidity Units; PtC	o=Platinum	Cobalt Units;	Q=Not all QC data met a	acceptance criteria; SI =	
Saturation umbo/cm	n Index; SU≖S =micrombos r	standard pH Units; per centimeter: V=	TON=Thre Value abov	e ovantitation	imber at 44.5 degrees C; range: "ELAP/NELAC do	ug/L-micrograms per Li des not offer certification f	er; or this
enalyte:	"ELAP ID is	isted for sub-contr	act laborato	iry		,	
					in C	Matinual Emiliary august 1	
Accredite	ation Conferen	ce (NELAC) Standa	ards. This te	st report peria	ins only to the above items	National Environmental L analyzed on this sample a must be reproduced in its e	s received
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		Total number of	f pages in t	his report, incl	uding chain of custody, is	·	



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8538

CERTIFICATE OF ANALYSIS

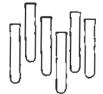
Cilent:	City of Kings	ton Engineers Offic					
GROTE.	Attn: Alan A	•					
	420 Broadwa						
	Kingston	e) NY	12	401	PO	# PO#00020300-01	
Client Pr	oject Name:	Rondout Creek					
	Location:	Site #5, grab					
Order co		Site #0, grab					
Order ID	: 121203	Sample Number:	215287		s	Sample Type: Surface Wa	nter
Sample	Collected By:	Alan Adin					
Date/Tim	ie sample coll	ected:	Date/Time	e sample recel	ved:	Received by:	
			5/20/2014	15:45		Arny Jo	
		rec'd at 13.9 deg (15:45		Arny Jo	_
5/20/2014 Sample (Paramete	Comment: FC			Units	Test Method	Army Jo Teat Date/Time	Tech*
Sample (Comment: FC er:		o				Tech**
Paramete Solids, S	Comment: FC er:	Test	Result	Unita	Test Method	Teat Date/Time	
Paramete Solids, S Total Sus	Comment: FC er: ettleable	Test	Result	Unita mL/L	Test Method SM20 2540F	Test Date/Time 5/21/2014 12:15	LAE
Paramete Solids, S Total Sus	Comment: FC er: ettleable spended Solids	Test	Result	Unita mL/L	Test Method SM20 2540F	Test Date/Time 5/21/2014 12:15	LAE
Paramete Solids, S Total Sus	Comment: FC er: ettleable spended Solids	Test	Result	Unita mL/L	Test Method SM20 2540F	Test Date/Time 5/21/2014 12:15	LAE

Reviewed by: Leb Manager, ELAP Lab ID #10924

09-Jun-14

Key' <= less than A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit, Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct. This report must be reproduced in its entirety.



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client:	Attn: Alan A 420 Broadwa	ay				_	- # BOKAAAA	500.0 4	
	Kingston	N	124	101		P	0 # PO#00020	300-01	
Client Pro Sample L Order co		Rondout Creek Site #6, grab							
Order ID:	121203	Sample Number	: 215288				Sample Type:	Surface Wa	iter
-	Collected By: e sample colle 11:12	Alan Adin ected:	Date/Time 5/20/2014	•	received:		Received by:		
		rec'd at 20.7. deg		'	15.45		Amy Jo		
Paramete	or:	Test	Result	Units		Test Method	Test D	ate/Time	Tach**
Solids, Se	ittleable		< 0.1	mL/L	;	SM20 2540F	5/21/20	14 12:15	LAE
Total Susp	pended Solids		1	mg/L	\$	SM20 2540 D	5/21/20	14	LAE
Results C	comment:								
	Sl	N							

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jun-14

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L. D=Elevated reporting limit, Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (846) 229-8536

CERTIFICATE OF ANALYSIS

Client:	Attn: Alan A 420 Broadw	ay		1404	20.4	DOMO000000 04	
	Kingston	NY			PO#	PO#00020300-01	
Client Pro Sample Le Order cor		Rondout Creek Site #7, grab					
Order ID:	121203	Sample Number:	215289		Sar	mple Type: Surface Wa	ater
Date/Time 5/20/2014	oliected By: sample coli 12:05 omment: F0		5/20/2014	e sample rec		eceived by: ny Jo	
Paramete	r;	Test	Result	Units	Test Method	Test Date/Time	Tech*
Solids, Se	ttleable		< 0.1	mL/L	SM20 2540F	5/21/2014 12:15	LAE
Total Susp	ended Solids	3	3	mg/L	SM20 2540 D	5/21/2014	LAE
Results C	omment:						
	\ __\{\}	lus					

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jun-14

Key: <= less than: A=Analysis performed over holding time: G=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit, Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Gobalt Units; O=Not all QC data met acceptance criteria; SI = Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:	City of Kings	ton Engineers Offic	Α				
Ondin.	Altn: Alan A	•	~				
	420 Broadwa						
	Kingston	NY	124	101	PC	# PO#00020300-0	1
Client Pro	oject Name:	Rondout Creek					
Sample L		Duplicate, grab					
Order co	mment:						
Order ID:	121203	Sample Number:	215290			Sample Type: Surfa	ace Water
Sample C	ollected By:	Alen Adin					
Date/Time	sample coll	ected:	Date/Time	sample rec	eived:	Received by:	
5/20/2014	11:05		5/20/2014	15:45	5	Amy Jo	
Sample C	omment: FC	rec'd at 21.1 deg C	.				
Paramete	r:	Test F	Result	Units	Test Method	Test Date/T	ime Tech*
Solids, Se	ttleable		< 0.1	mL/L	SM20 2540F	5/21/2014	12:15 LAE
Total Susp	pended Solids		3	mg/L	SM20 2540 D	5/21/2014	LAE
Resulte C	omment:						
	21	2 m					

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jun-14

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L, D=Elevated reporting limit, Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit, MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = sturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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SMITH LABOR	RATORY				СН	AIN (OF CUS	STODY		Login Re		8	
4 Scenic Drive	Hyde Park, NY 12538-1313 Turnaround Time: Standard ✓							Copy results	; to	Amt Due			
Phone: 845-225		RUSH (Rush				Local Health Dept.					Pmt Method :		
Fax: 845-225	9-6538	** Date report re	quested:					Yes N	{o _√_	Receipt 1	<u> 10:</u>		
Client Name: _	_CITY OF KING	STON		Client	Phone N	No: 845	-334-3968_	P	roject/Facility Name:	RONDOUT CREE	к <u>-</u> _	_	
Mailing Addres	s:420 BROAI	DWAY		Client	Fax No.	.:		I.	ocation:		-		
KING	STON, NY 1240	l		Сору I	Report T	To:R	ALPH SWE	ENSON	PWS Fed ID No: N	Y			
LAB USE ONLY	CL	IENT: COMPLE	TE THE	SAMP	LE IN	ORMA	TION IN	THE SPAC	E PROVIDED BELOW	·	LA	B USE O	VLY
Order ID No: 12/203 Sample No:		entification & de Point	Matrix	Grab	Check On Comp # hrs	ne) First Draw	Treatment Type & Residual	Date/Time Sampled 5-20 -1 A	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
2152834	SITE#1		sw	Х				10:43A	SS/TSS	1-1LPLAS L-1/2 L PLA ST	র	17.3/17	7
1 2841	SITE #2		sw	Х				10:55A	SS/TSS	12-11PLAS 1-1/21PLAS		16.67	
295	SITE #3		sw	Х				11:05A	SS/TSS	12-ILPLAS 1-YZL DLAS	-	79/72	
286	SITE #4		SW	Х				11:20A	SS/TSS	17-1LPLAS 1-YEL PLANT		18.07 C	2
287	SITE #5		sw	Х				11:30 -A	SS/TSS	12-1LPLAS 1-1/2 L PLAST		5.8/Z.	
288	SITE #6		sw	X			<u> </u>	11:12A	SS/TSS	17-ILPLAS 1-YLL PLAST	\perp	100/18	
1289	SITE #7		sw	X				12:05P	SS/TSS	17-ILPLAS		188/170	
1290	DUPLICATE		SW	Х				11:05A	55/75)	1-LL PUST 1-1/26 PLAST.	سلم	7/1/N	
Ĺ							_		·				
Sampled By: (Nam	e) ALAN	ADIN			(Title) 🛃	V6INEE	PING TI	ECH. I hereby affirm that the i	nformation above is tru	e and co	emplete to d	ne best of
-	ad By: A AV	ponsible for payment, w	dess other p				proved in adv	ance by Smith I	_aboratory.	Date:		Time	
							Ву:(SYP		Date: 5/20	114	Time:	345
·	Sample Relinquished By:						enis:				, (
Thermal Preservati	Thermal Preservation: NA (Yes No												
Chemical Preserva	tion (NA) res No_				<u> </u>		_						
Correct Bottle Typ	e (Yes No_				— İ								
Other						Smith La	boratory Chai	in of Custody Re	ev. 4, 2/14 Data Re	eview: Mgr	5	Date 6	2

nt 1 - Sampling Event Summary Sheet

SAMPLING EVENT # 5

Date: 5.27-14

Temperature: HIGH 705.400.805

mitial:

AJA

Page ___ of ___

Sampling Team:

ADIN/A SWENSON/A WINCHELL

Weather:

WESTLY SUMMY.

Direction of Flow:

Sampling Location	Time	Field Parameter	Physical Observations	Comments
F1 - vind ROLDOUT	LAT 41 406	DO 8.9 mg/L	Grease NOAE	TIDE - FSTERLY SLACE
U PSTREAMSE	LONG 74.004.	temperature 21.4°C	Floatables MONERATE	10 YDS WESTERLY OF FEEREY DRY DOCK
WILBUR OUTFALL	11:42 A		Odors NONE	WEGETATIVE WATTER-SMAKE
CREEK - UKSTREAM	LAT 41.912	DO 88 mg/L	Grease NOME	TIVE- MUSTERS SU
f BLOCK PARK	LONE 73,942	temperature 21.9°C	Floatables LIGHT	50 YOS SOUTHERLY OF CAUSELIAY
	1154A		Odors NONE	VEGETATIVE MATTER
+ 3 - WID REBUROUT	LAT-41.9149	DO 8.9 mg/L	Grease NOWE	TIDE-IN TESTERLY ON BASTERLY SE
PS REAM OF OLD	LONG - 73 985.	temperature Z1.0°C	Floatables LIGHT	25 YOS SUTHERLY OF STEEL BOILER PROTERVOING FOR WATER NEAR
BRIDGE	12:01 PM		Odors None	ISLAMO DOCK BD/VEGGIE MATTER
44 MID CREEK ROWN 120CYDS DOWN SPEAM	LAT 41.919	DO 9.2 my/L	Grease NONE	50 yps sout yof streety sea
W NEW BRIDGE	WAG 73,979.	temperature 20.8°C	Floatables L (GHT	PATTO GAS E CEOSSING SIGN
	12:12 pm		Odors NOME	STEEL HOUS ATIO
15 MID RONDOUT	LAT 41.922	DO 83 m/L	Grease Nonf	TIDE - OUT TERLY SLACK
LREEK LYSTREAM Nº KINILSTON PT. PK	LONG 73,969	temperature 21.1°C	Floatables McDazane	SIED AND DE DONCE CAS
	12:22 PM		Odors	LINE CROSSIA GN/FROM
COND. POWDET	LAT: 41.917	DO 9.1 my/L	Grease NOME	TIDE TOT YELY SCACK
GRADGE NEW STRADGE	LONG - 73,981	temperature 20.8°C.	Floatables LI GHT	50 YDS SOV Y OF CLEAR WATER
	12:07 PM.		Odors NONE.	VEG. MAT
t7 UPSTREAM OF	LAT 41.885	DO 8.5 m/L	Grease NOAE	- 000 P
MSDEC BOY MSDEC BOY	LONG 74 050	temperature 21.0°C	Floatables 40002416	ROUDET CREEK BOAT LANGEL - MID
ADJEC DEWNIN	1:05 P +====		Odors NONE	VEGETATIVE WATER FEFECTED BY TID
OWE-	SITE 44	DO	Grease	SITE#4
		temperature	Floatables	
			Odors	



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

PD#

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston NY 12401

Client Project Name:

Rondout Creek Surface Water Sample Type:

Order comment:

Order ID: 121320

Sample Number: 215527 Sample Location: Site #1, grab

Sample Comment: FC rec'd at 16.6 deg C

Date/Time sample collected: 5/27/2014 Collected By: Alan Adin 11:42 5/27/2014 14:40 Date/Time sample received: Received by: Karolina

Date/Time sample analyzed: 5/27/2014 15:50 Tech: 55

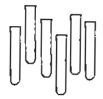
Test Result* **Parameter** Units Test Method Fecal Coliform 30 CFU/100mL SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

121320

Sample Number:

Sample Location:

215526 Site #2, grab

5/27/2014

Sample Comment:

FC rec'd at 15.6 deg C

Date/Time sample collected:

5/27/2014 11

11:54

Collected By:

Alan Adin

Date/Time sample received: Date/Time sample analyzed: 5/27/2014

14:40 15:50 Received by: Karolina

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

20

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

121320

Sample Number:

215529

Sample Location:

Site #3, grab

Sample Comment:

FC rec'd at 17.6 deg C

Date/Time sample collected:

5/27/2014 12:01 5/27/2014 14:40 Collected By:

Alan Adin Karolina

SS

Date/Time sample received: Date/Time sample analyzed:

5/27/2014 14:40 5/27/2014 15:50 Received by:

Parameter

Test Result*

Units

Tech:

Test Method

Fecal Coliform

40

CFU/100mL

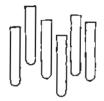
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by:/Lab Manager, ELAP Lab ID #10924

30-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek Sample Type: Surface Water

Order comment:

121320 Order ID:

Sample Number:

215530

5/27/2014

Sample Location:

Site #4, grab

Sample Comment:

FC rec'd at 15.8 deg C

Date/Time sample collected:

12:12

Collected By:

Alan Adin

Date/Time sample received:

5/27/2014 14:40 Received by:

Karolina

Date/Time sample analyzed:

5/27/2014 15:50

Tech: SS

Unita

Parameter Fecal Coliform Test Result* 50

CFU/100mL

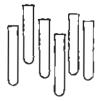
Test Method SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

PO# Kingston 12401

Client Project Name:

Rondout Creek Surface Water Sample Type:

Order comment:

121320 Order ID:

215531 Sample Number:

Site #5, grab Sample Location:

FC rec'd at 17.3 deg C Sample Comment: Date/Time sample collected: 5/27/2014 12:22

Collected By: Alan Adin Date/Time sample received: 5/27/2014 14:40 Received by: Karolina 5/27/2014 15:50 Tech: SS Date/Time sample analyzed:

Units Test Method Test Result* **Parameter** Fecal Coliform 180 CFU/100mL SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Just Manager, ELAP Lab ID #10924

30-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6538

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

121320

Sample Number:

215532

Sample Location:

Site #6, grab

5/27/2014

Sample Comment:

FC rec'd at 15.3 deg C

Date/Time sample collected:

5/27/2014 12:07 Collected By:

Alan Adin

Date/Time sample received:

5/27/2014

Karolina

Date/Time sample analyzed:

14:40

Received by:

SS Tech:

Parameter

Test Result*

15:50

Units

Test Method

Fecal Coliform

30

CFU/100mL

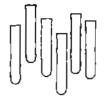
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Lab Manager, ELAP Lab ID #10924 Reviewed by:

30-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8538

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

Order ID: 121320

Sample Number: 215533
Sample Location: Site #7, over

Sample Location: Site #7, grab

Sample Comment: FC rec'd at 14.8 deg C

Date/Time sample collected:5/27/201413:05Collected By:Alan Adin.Date/Time sample received:5/27/201414:40Received by:Karolina

Date/Time sample analyzed: 5/27/2014 15:50 Tech: SS

 Parameter
 Test Result*
 Units
 Test Method

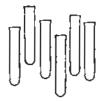
 Fecal Coliform
 40
 CFU/100mL
 SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

30-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDÉ PARK, NEW YORK 12538 (845) 229-6538

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

PO# NY 12401 Kingston

Client Project Name: Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

121320

Sample Number:

215534

Sample Location:

Duplicate, grab

Sample Comment: Date/Time sample collected: FC rec'd at 17.0 deg C 5/27/2014

12:12 14:40 Collected By:

Alen Adin Karolina

Date/Time sample received: Date/Time sample analyzed: 5/27/2014 5/27/2014 15:50 Received by: Tech:

SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

100

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

121320

Sample Number:

215728

Sample Location:

Blank-QC

Sample Comment:

100 mL buffered rinse water used

Date/Time sample collected:

15:50

Collected By:

Date/Time sample received:

5/27/2014 5/27/2014

15:50

Received by: Karolina

Date/Time sample analyzed:

5/27/2014 15:50

Tech: SS

Test Method

Parameter Fecal Coliform Test Result* < 1

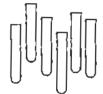
Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: #10924 Manager, ELAP Lab ID 30-May-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: 0	City of	Kingston	Engineers	Office
-----------	---------	----------	-----------	--------

Attn: Alan Adin 420 Broadway

Kingston

Client Project Name:

Rondout Creek

NY

Sample Location: Order comment:

Order ID: 121320 Sample Number: 215527

PO#

Sample Type: Surface Water

Sample Collected By:

Alan Adin

Site #1, grab

Date/Time sample collected:

Date/Time sample received:

12401

Received by:

5/27/2014

11:42

5/27/2014

14:40

Karolina

Sample Comment: FC rec'd at 16.6 deg C

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/28/2014 17:00	LAE
Total Suspended Solids	< 1	mg/L	SM20 2540 D	5/29/2014	SW

Results Comment:

Táb Manager, ELAP Lab ID #10924

11-Jun-14

< Ness than, A=Analysis performed over holding time, B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value, H=Sample received over analysis holding time; J=Result estimated below quantitation limit. MCL=New York State Maximum Contaminant Level, MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight, mg/L=milligrams per Liter, mL/L=milliliters per Liter, ND=Not Detected; NTU=Nephelometric Turbidity Units: PtCo=Platinum Cobalt Units; Q=Not all QC deta met acceptance criteria; SI = Saturation Index: SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L-micrograms per Liter, umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client:	City of King	ston Engineers Office	æ					
	420 Broadw Kingston	ay NY	124	101	Р	0#		
	oject Name: Location: omment:	Rondout Creek Site #2, grab	-					
Order ID:	: 121320	Sample Number:	215528			Sample Type:	Surface Wa	iter
Date/Tim 5/27/2014			5/27/2014	sample rec 14:4		Received by: Karolina		
Parametr Solids, So	er:	Test	Result < 0.1	Units mL/L mg/L	Test Method SM20 2540F SM20 2540 D		ate/Time 14 17:00	Tech** LAE SW

 \wedge

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Jun-14

Key: <= less than; A=Analysis performed over holding time; B=BQD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kitogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client:	Gity of Kings Attn: Alan A 420 Broadw Kingston			401		PO#		
Client Pr	oject Name:	Rondout Creek				· <u> </u>		
	_ocation:	Site #3, grab						
Order co		one no, grae						
Order ID:	121320	Sample Number:	215529			Sample Type:	Surface Wa	iter
Sample (Collected By:	Alan Adin						
Date/Tim	e sample coll	ected:	Date/Time	sample re	ceived:	Received by:		
5/27/2014	12:01		5/27/2014	14:	40	Karolina		
Sample (Comment: FC	rec'd at 17.6 deg (
Paramet		Test	Result	Units	Test Method	Test Da	ate/Time	Tech**
Solids, Se	ettieable		< 0.1	mL/L	SM20 2540F	5/28/20	14 17:00	LAE
Total Sus	nended Solids		2	ma/l	SM20 2540 D	5/29/20	14	SW

Louth Ila al.

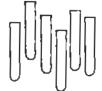
Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

1-Jun-14

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:	City of King	ston Engineers Off	fice				
	420 Broadw	ay					
	Kingston	N	IY 12	2401	F	PO#	
Client Pr	oject Name:	Rondout Creek					
Sample L	ocation:	Site #4, grab					
Order co	mment:						
Order ID:	121320	Sample Numbe	r: 215530			Sample Type: Surface	Water
Sample 0	Collected By:	Alan Adin					
Date/Tim	e sample coll	ected:	Date/Tim	e sample n	eceived:	Received by:	
5/2 7/ 2014	12:12		5/27/2014	1 14	:40	Karolina	
Sample (Comment: FO	rec'd at 15.8 deg	С				
Paramete	er:	Test	t Result	Units	Test Method	Test Date/Time	Tech*
Solids, Se	ettleable		< 0.1	mL/L	SM20 2540F	5/28/2014 17:0	0 LAE
Total Sus	pended Solids		3	ma/l	SM20 2540 D	5/29/2014	SW

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Jun-14

Key: <= less-than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter, mL/L=milliliters per Liter, ND=Not Detected; NTU=Nephelometric Turbidity Units; PICo=Platinum Cobait Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number et 60 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this enalyte; **ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6538

CERTIFICATE OF ANALYSIS

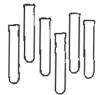
Client:	City of Kings	ston Engineers Offic	 се							
	420 Broadw									
	Kingston	NY	124	01	F	*O#				
Client Pro	oject Name:	Rondout Creek								
Sample L	ocation:	Site #5, grab								
Order co	mment:									
Order ID:	121320	Sample Number	215531			Sample Type:	Surface Wa	iter		
Sample C	collected By:	Alan Adin								
Date/Time	e sample coll	ect ed :	Date/Time	sample re	ceived:	Received by:				
5/27/2014	12:22		5/27/2014	14:4	40	Karolina				
Sample C	comment: FC	rec'd at 17.3 deg (
Paramete	er:	Test	Result	Units	Test Method	Test D	ate/Time	Tech**		
Solids, Se	ettleable		< 0.1	mL/L	SM20 2540F	5/28/20	17:00	LAE		
Total Sus	pended Solids	•	14	mg/L	SM20 2540 D	5/29/20	014	sw		
Results (Comment:									

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Jun-14

Key: <= less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L, C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time, J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level, MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight, mg/L=milligrams per Liter; mL/L=milliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T O.N.=Threshold Odor Number at 60 degrees C; ug/L-micrograms per Liter, umho/cm=micromhos per centimeter, V=Value above quantitation range; "ELAP/NELAC does not offer certification for this analyte; "*ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

		- 0		10/11L	31 7 (14) (E 1 0 10		
Client:	City of King Attn: Alan 420 Broadw Kingston	• •		12401	PO #		
Client Pro Sample L Order co		Rondout Creek Site #6, grab					
Order ID:	121320	Sample Number	: 21553	2	8a	mple Type: Surface W	ater
Date/Time 5/27/2014		lected:	5/27/201	me sample rec 14 14;4		ecelved by: arolina	
Paramete	r:	Test	Result	Units	Test Method	Test Date/Time	Tech**
Solids, Se	ttleable		< 0.1	mL/L	SM20 2540F	5/28/2014 17:00	LAE
Total Susp	ended Solid	5	< 1	mg/L	SM20 2540 D	5/29/2014	SW
Results C	ettal	1, Nott	-			dd bor	14
MEAIRMEG	(O): Lad Ma	nager, ELAP Lab II	J #1U924	•		11-Jun-1	14

Key: <= less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit, mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; MDL=Milligrams per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units, PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L-micrograms per Liter, umho/cm=micromhos per centimeter; V=Value above quantitation range; "ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:	Attn: Alan A 420 Broadw			401			3O #		
	Kingston	-					PO #		
	oject Name: _ocation: xmment:	Rondout Creek Site #7, grab							
Order ID:	121320	Sample Number:	215533				Sample Type:	Surface Wa	ater
Sample (Collected By:	Alan Adin							
Date/Tim 5/27/2014	e sample coll 13:05		Date/Time sample received: 5/27/2014 14:40			ed: Received by: Karolina			
Sample (Comment: FC	rec'd at 14.8 deg (2						
Paramete	er:	Test	Result	Units	Te	st Method	Test C	ate/Time	Tech*
Solids, Se	ettleable		< 0.1	mL/L	SM	120 2540F	5/29/20	10:00	LAE
Total Sus	pended Solids	i	3	mg/L	SN	120 2540 D	5/29/20)14	SW
Results (Comment:								

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Jun-14

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6538

CERTIFICATE OF ANALYSIS

Client:	City of Kingston Engineers Office Attn: Alan Adin 420 Broadway										
	Kingston		12	401	F	PO#					
Client Pro Sample L Order co		Rondout Creek Duplicate, grab									
Order ID:	121320	Sample Number:	215534			Sample Type:	Surface Wa	iter			
Sample C	collected By:	Alan Adin									
Date/Time	sample coll	ected:	Date/Time	sample re	ceived:	Received by:					
5/27/2014	12:12		5/27/2014	14:	40	Karolina					
Sample C	comment: FC	rec'd at 17.0 deg C	;								
Paramete	r:	Test F	Result	Units	Test Method	Test Da	te/Time	Tech*			
Solids, Se	ttleable		< 0.1	mL/L	SM20 2540F	5/29/201	4 10:00	LAE			
Total Susp	pended Solids		4	mg/L	SM20 2540 D	5/29/201	4	SW			
Results C	Comment:										

11-41-11

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Jun-14

Key: <= less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=millitiers per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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EMAIL: I Swenson C Kingston-ny. gov.

SMITH LABORA	ATORY			CH	AIN	OF CUS	STODY			Login R			
4 Scenic Drive						Copy results to Amt Paid:							
Hyde Park, NY 12538-1313 Turnaround Time: Standard ✓					Copy results to Local Health Dept.					Pmt Method:			
Phone: 845-229-6536								n Dept. No √	-	Receipt			
Fax: 845-229-	0538 — Date report r	· .			163]	NO _ 1 _		Keccipi	140.				
Client Name:(CITY OF KINGSTON		Client	Phone 1	No: 845	-334-3968	I	Project/Facility Name:I	RONDOL	T CRE	EK	_	
Mailing Address:	420 BROADWAY		Client	Fax No	.:			Location:			•		
KINGS	TON, NY 12401		Copy 1	Report 1	To:R	ALPH SWI	ENSON	PWS Fed ID No: N	Y				
AB USE ONLY	CLIENT: COMPLE	TE THE	SAMI	PLE IN	FORM	ATION IN	THE SPAC	E PROVIDED BELOW			LA.	B USE OF	VLY
Order ID No:	der ID No: Sample Identification & Sample Point		((Grab	Check O	First	Treatment Type & Residual	Date/Time Sampled	Analysis Requested		iner & vative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
Sample No:	 ·	1 2		# hrs	Draw	Kesiduai	5.27.14				-	200	
215527	SITE #1	SW	X				11 42A		12-1LPI		W	17.6	$ \lambda\rangle $
31552808	SITE #2	sw	Х				11.54A	CCTTCC 3	-2-1LPI	AS	Y	13.4	
カノンクイグのか	SITE #3	sw	Х				12:01 P	1	2=1LPI -1/2181	AS AST		14.8	
a15530	SITE #4	sw	Х				12:129		2-1LPI	AST		1,21	
011101100	SITE #5	sw	Х			(Z:22P	1.057	1	2-1LPI -12LPL	AST.		18.4	
みしつろういじ	SITE #6	SW	X				12:079	1	2-1LPI	15 †		14.8	
215533 WS		sw	X				1:057	SS/TSS 1	2-1LPI /2L PL	15T		18.)	
215534 No	DUPLICATE SITE # 4	SW	Х				12:12 7	55/115	1-1LP		V	18.1	V
							i					1 1	
Sampled By: (Name)	ALAN ADIN	•		(Title)	NGINE	RING T	ECH I hereby affirm that the in	formation a	bove is tn	ue and co	mplete to th	e best of
	e affirm that I am responsible for payment, u		-	arrangeme	ents are ap	proved in adv	ance by Smith	Laboratory.					
Sample Relinquished E	By: 170470 130 (10				ed By:				Dat	Date: 5 7 14 Time: 240 p.W			
Sample Relinquished E	Ву:			Receiv	ed at Lab	By LLL	ear)		Dat	:5/2	7/14	Time:	10 DIN
Sample(s) received m	et the following requirements				Comm		-						
Thermal Preservation	: NA Yes No				1								
Chemical Preservation	m: NA Yes No				-								
Correct Bottle Type	Yes No									_			
Other					Smith La	iboratory Chai	in of Custody R	ev 4 2/14 Data Re	view: Mg	, X	7	Date 2	10
					200000		or crawdy it	21, 1 ₁ 20 17 DOLD IVE	- *** 11. TATE	• —>	_	-au-t	

Attach nt 1 - Sampling Event Summary Sheet

SAMPLING EVENT 46

Initials:

Date: JUNE 3 LOLY

Page ___ of ___

Sampling Team:

Weather:

LAS ALLEN RAW H

CHEAL

EAR JUNDY CALM

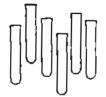
Temperature: 70 3

Direction of Flow:

OUT BASTERLY

Sampling Location	Time	Field Parameter	Physical Observations	Comm	ents
SITE #1: MID-RONDOUT CREEK APPROX. 250 YOS	LATITUDE: 41.7064	DO 8.4	Grease ハンハノゲ	TIDE: 607	1 25 50- 200
UPSTREAM OF WILBUR AVE, OUTFALL	LONGITURE: 74,0043	temperature 22,3°C	Floatables	APPROX. 15 YDS WE DOCK AT PROPERTY	/ OF FEEREY DRY PRYBETWEEN VESS
	,9:25 AM		Odors	FEEDEY AND RECYCLI	
SITE # Z: MID-RONGOUT CREEK - UPSTREAM	LAT: 4/,912/6 LONG: 73,9921	DO 3.7	Grease Noむム	TIDE: US T	- ISLAND DOCK
of Scock Park		temperature 24, 4 2	Floatables	CAUSEWAY CULVE	
	9:40 mm		Odors		
SITE #3: MID - RONDOUT CREEK	LAT: 41,9146	DO 8.7	Grease んしゃん	TIDE: OUT 25 YDS SOUTHER	OLD STEEL
APPROX. 150 YOS UPSTREAM OF OLD	LONG: - 73,9847	temperature 21.7 c	Floatables AGAT	BOILER PROTRUOIA	m water wear
BRIDGE	9:47 Am		Odors none	ISLAND DOCK BULKH	MITER
SITE #6: MID- ROMDOUT CREEK	LAT: 41,9178	DO 8.8	Grease № W €	TIDE: OUT	CLEARWATER
NNDER WEN BRIDGE	LONG; 78,7812	temperature 21,4 °C	Floatables べるので	50 YDS SOUTHER MAINTENANCE SHE!	LE SLIDE DOORS
	9:55 AM		Odors MONE	VEGETATIVE	MER
SITE #4: MID- RONDOUT CREEK	LAT: 41.9192	DO 8.6	Grease ハッツダエ	TIDE: OUT 50 YDS SOUTHERI	STEELHOUSE
APPROX. 200 YDS		temperature 24, 2°C	Floatables ACHT	RESTAURANT COME	ATIO
NEW BRIDGE	9:59 Am		Odors NONG	VEGETATIV	THER
DOUNDS-FERRESE		DO 8.7	Grease Novie	TIDE: OUT	SAS LINE
UPSTREAM OF BLOCK	LONG: 73,9695	temperature 21,4 c	Floatables 454T	SO YOS SOUTHERLY CROSSING WARNIN	N L/NE
PARK	19:05 AM		Odors ಸಾಕಿಸಿತ್ತ	VEGETATIVE	THE
SITE # 7: MID - RONDOUT CREEK APPROX		DO 8.0	Grease UOAf	FLOW: ALWAYS EASTE NOT TIDAL. STRAIGH	JASTREAM)-LOCATION FROM WESTERLY
3/4 MILE UPSTREAM OF EDDYVILLE DAM AT	LON 6: 74,090	temperature 22.5		END BOAT LAUNCH	ridom westerly
NYSDEC BOATLAUNCH	10:35 A		Odors NOVE	JEGETHTIV	ITTER.
		DO 8.7	Grease ペシング	516 #5	umbard
DVPLICATE.	LONG: 73.7695	temperature 21.4 c	Floatables 4CHT		
7 0	10205 AM		Odors None		

well home



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Randout Creek Surface Water

Sample Type: Order comment:

Order ID:

121504

Sample Number:

215854

Sample Location:

Site #1, grab

Sample Comment:

FC rec'd at 19.4 deg C.

Date/Time sample collected:

6/3/2014

9:25

Collected By:

Alan Adin

Date/Time sample received:

6/3/2014

Received by:

Amy Jo

SS

Date/Time sample analyzed:

6/3/2014

11:45 15:00

Tech:

Parameter Fecal Coliform Test Result* 60

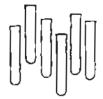
Units CFU/100mL **Test Method** SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by/Lab Manager, ELAP Lab ID #10924

07-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401

Client Project Name:

Rondout Creek Surface Water Sample Type:

Order comment:

121504 Order ID:

Sample Number:

215855

Sample Location:

Site #2, grab

Sample Comment:

FC rec'd at 16.5 deg C.

Date/Time sample collected:

6/3/2014

9:40

Collected By:

Alan Adin Army Jo

Date/Time sample received: Date/Time sample analyzed: 6/3/2014 6/3/2014 11:45 15:00 Received by:

PO #

Tech: SS

Test Result* Parameter

Units

Test Method

Fecal Coliform

< 10

CFU/100mL

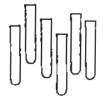
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Leb ID #10924

07-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

12401 Kingston NY

PO#

Client Project Name: Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

121504

Sample Number:

215856

Sample Location:

Site #3, grab

Sample Comment:

FC rec'd at 16.4 deg C.

Date/Time sample collected:

6/3/2014

9:47

Collected By: Alan Adin

Date/Time sample received:

6/3/2014

Received by:

Amy Jo

Date/Time sample analyzed:

6/3/2014

11:45 15:00

Tech:

Parameter Fecal Coliform Test Result* 40

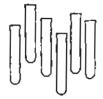
Units CFU/100mL **Test Method** SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

121504

Sample Number:

215857

Sample Location:

Site #4, grab

Sample Comment:

FC rec'd at 18,2 deg C.

Date/Time sample collected: Date/Time sample received: 6/3/2014

9:59

Collected By:

: Alan Adin Amy Jo

Date/Time sample analyzed:

6/3/2014 6/3/2014 11:45 15:00 Received by: Ar

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

20

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6538

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingstoл

12401

PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

121504

Sample Number:

215658 Site #5, grab

Sample Location: Sample Comment:

FC rec'd at 19.6 deg C.

Date/Time sample collected:

6/3/2014

10:05

Collected By:

Alan Adin

Date/Time sample received:

6/3/2014

Received by:

Amy Jo

Date/Time sample analyzed:

6/3/2014

11:45 15:00

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 10

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

07-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name: Sample Type:

Date/Time sample analyzed:

Rondout Creek Surface Water

6/3/2014

Order comment:

Order ID: 121504

Sample Number: 21585

Sample Number: 215859
Sample Location: Site #6, grab

Sample Comment: FC red'd at 21.0 deg C.

Date/Time sample collected: 6/3/2014 9:55 Collected By: Alan Adin Date/Time sample received: 6/3/2014 11:45 Received by: Amy Jo

 Parameter
 Test Result*
 Units
 Test Method

 Fecal Coliform
 10
 CFU/100mL
 SM 18 9222D

15:00

Tech:

SS

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6538

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

PO# NY 12401 Kingston

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

121504

Sample Number:

215860

Sample Location:

Site #7, grab

Sample Comment:

FC rec'd at 21.8 deg C.

Date/Time sample collected:

6/3/2014

10:35

Collected By:

Alan Adin

Date/Time sample received:

6/3/2014

Received by: Amy Jo

Date/Time sample analyzed:

6/3/2014

11:45 15:00

Tech: SS

Test Method

Parameter Fecal Coliform Test Result* 10

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

121504

Sample Number:

215861

Sample Location: Sample Comment:

Duplicate/Site #5, grab FC rec'd at 17.5 deg C.

Date/Time sample collected:

6/3/2014

10:05

Collected By:

Alan Adin

Date/Time sample received: Date/Time sample analyzed: 6/3/2014

11:45

Received by: Amy Jo

6/3/2014

15:00

Tech:

SS

Parameter Fecal Coliform Test Result* 50

Unita CFU/100mL **Test Method**

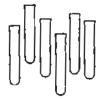
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

12401

Client Project Name:

Rondout Creek

Bample Type:

Water

Order comment:

Order ID:

121504

Sample Number:

216298

Sample Location:

Blank-QC

Sample Comment:

100 mL buffered rinse water used

Date/Time sample collected:

15:00

Collected By:

Date/Time sample received:

15:00

Received by: Amy Jo

PO#

Date/Time sample analyzed:

6/3/2014 6/3/2014

6/3/2014

15:00

Tech: SS

Parameter Fecal Coliform Test Result* < 1

Units CFU/100mL Test Method SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:	City of Kings	ton Engineers Off	ice					
	Attn: Alan A	din						
	420 Broadwa	ay .						
	Kingston	N	Y 12	401	P	O# 00020300-01		
Client Pro	oject Name:	Rondout Creek						
Sample L	ocation:	Site #1, grab						
Order co	mment:							
Order ID:	121504	Sample Number	r: 215854			Sample Type: So	urface Wate	er
Sample C	collected By:	Alan Adin						
Date/Time	e sample colle	ected:	Date/Time	e sample rec	eived:	Received by:		
6/3/2014	9:25		6/3/2014	11:4	15	Amy Jo		
Sample C	comment: FC	rec'd at 19.4 deg	C.					
Paramete	ır:	Test	Result	Units	Test Method	Test Date	/Time	Tech*
Solids, Se	ettleable		< 0.1	mL/L	SM20 2540F	6/4/2014	16:30	JFE
Total Sus	pended Solids		5	mg/L	SM20 2540 D	6/4/2014		SW
Results C	Comment:							
		0.						
		gen						
Reviewed	by: Lab Man	ager, ELAP Lab	D #10924				16-Jun-14	
					BOD blank depletion v			

Key: <= less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

PO# 00020300-01 NY 12401 Kingston

Date/Time sample received:

Client Project Name: Sample Location:

Rondout Creek

Order comment:

Site #2, grab

Alan Adin

Order ID: 121504

Sample Number: 215855

Sample Type: Surface Water

Sample Collected By:

Date/Time sample collected:

Received by:

6/3/2014

9:40

6/3/2014

11:45

Amy Jo

Sample Comment: FC rec'd at 16.5 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/4/2014 16:30	JFE
Total Suspended Solids	3	mg/L	SM20 2540 D	6/4/2014	SW

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

16-Jun-14

Key: <= less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria, SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L-micrograms per Liter, umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

		CE	KIIF	CAT	E OF F	ANALYSIS			
Client:	City of Kings Attn: Alan A 420 Broadwa Kingston			401		PO	# 00020300-01		
	oject Name: Location: omment:	Rondout Creek Site #3, grab							
Order ID:	121504	Sample Number:	215856			S	ample Type: S	urface Wa	iter
•	Collected By:	Alan Adin							
	e sample colle	ected:		-	received:		Received by:		
6/3/2014 Sample (9:47 Comment: FC	rec'd at 16.4 deg (6/3/2014 C.		11:45	, , , , , , , , , , , , , , , , , , ,	Amy Jo		
Paramete	er:	Test	Result	Units		rest Method	Test Date	a/Time	Tech*
Solids, Se	ettleable		< 0.1	mL/L		SM20 2540F	6/4/2014	16:30	JFE
Total Sus	pended Solids		2	mg/L	8	M20 2540 D	6/4/2014		SW
Results (Comment:	DIE	-						

Reviewed by: Lab Manager, ELAP Lab ID #10924

16-Jun-14

Key: <= less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALVOIS

			SERIU	FICAT	E OF ANA	L 1 313			
Client:	City of Kings Attn: Alan A 420 Broadwa		Office						
	Kingston		NY	12401		PO#	00020300-	01	
Client Pro Sample L Order co		Rondout Cree Site #4, grab	k						
Order ID:	121504	Sample Numb	oer: 21585	57		San	nple Type:	Surface Wa	iter
Date/Time 6/3/2014	collected By: e sample colle 9:59 comment: FC	Alan Adin ected: rec'd at 18.2 de	6/3/201		e received: 11:45		ceived by: ny Jo		
Paramete	r:	Te	st Result	Units	Test Me	ethod	Test D	ate/Time	Tech**
Solids, Se	ttleable		< 0.1	mL/L	SM20 2	540F	6/4/20	14 16:30	JFE
Total Sus	pended Solids		4	mg/L	SM20 2	540 D	6/4/20	14	sw
Results C	comment:	Shir							
Reviewed	by: Lab Man	ager, ELAP La	b ID #10924	4				16-Jun-1	4
C=degree J=Result of Limit; mg	s Celsius; D= estimated belo /kg=milligrams	Elevated reporti w quantitation li s per kilogram d	ng limit; Es mit; MCL= ry weight; r	t=Estimate New York S ng/L=millig	B=BOD blank dep ed Value; H=Samp state Maximum Con rams per Liter; no	le received on ntaminant Le /L=milliliters	over analysis evel; MDL=f per Liter; N	holding time wethod Deter ID=Not Deter	ction

NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range, *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

		CI	EKIIF	CATE	OF ANALYS	15		
Client:	City of Kings Attn: Alan A 420 Broadw		се					
	Kingston	NY	12	401	P	O# 00020300-0	1	
Cilent Pro Sample Lo		Rondout Creek Site #5, grab						
Order ID:	121504	Sample Number:	215858			Sample Type:	Surface Wat	ier
Sample C	ollected By:	Alan Adin						
Date/Time	sample coll	ected:	Date/Time	e sample red	ceived:	Received by:		
6/3/2014	10:05		6/3/2014	11:4	45	Amy Jo		
Sample C	omment: FC	rec'd at 19.6 deg (О.					
Parameter	r:	Test	Result	Units	Test Method	Test Da	te/Time	Tech**
Solids, Set	ttleable		< 0.1	mL/L	SM20 2540F	6/4/201	4 16:30	JFE
Total Susp	ended Solids		3	mg/L	SM20 2540 D	6/4/201	4	SW
Results C	omment:	Jun						
Reviewed	by: Lab Man	ager, ELAP Lab II	#10924				16-Jun-14	

Key: <= less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

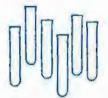
		CE	-KIII	ICATE	OF ANALIS	10		
Client:	City of Kings Attn: Alan A 420 Broadw Kingston			2401	F	₽○# 00020300-	01	
Client Pr	oject Name:	Rondout Creek						
Sample L	ocation:	Site #6, grab						
Order co	omment:							
Order ID:	121504	Sample Number:	215859			Sample Type:	Surface Wa	iter
Sample (Collected By:	Alan Adin						
Date/Tim	e sample coll	ected:	Date/Tim	e sample re	celved:	Received by:		
6/3/2014	9:55		6/3/2014	11:4	15	Amy Jo		
Sample (Comment: FC	rec'd at 21.0 deg 0	D					
Paramete	er:	Test	Result	Units	Test Method	Test D	ate/Time	Tech**
Solids, Se	ettleable		< 0.1	mL/L	SM20 2540F	6/4/20	14 16:30	JFE
Total Sus	pended Solids		2	mg/L	SM20 2540 D	6/4/20	14	sw
Results 0	Comment:							

Reviewed by: Lab Manager, ELAP Lab ID #10924

16-Jun-14

Key: <= less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:	City of Kings	ton Engineers Offic	ce					
	Attn: Alan A	din						
	420 Broadwa	ay						
	Kingston	N)	1 12	401	PO	# 00020300-01		
Client Pr	oject Name:	Rondout Creek						
Sample L	ocation:	Site #7, grab						
Order co	omment:							
Order ID	121504	Sample Number	215860		s	ample Type: Sur	face Wate	er
Sample (Collected By:	Alan Adin						
Date/Tim	e sample coll	ected:	Date/Tim	e sample rece	ived: F	Received by:		
6/3/2014	10:35		6/3/2014	11:45	A	Arny Jo		
Sample (Comment: FC	rec'd at 21.8 deg (C .					
Paramete	er:	Test	Result	Units	Test Method	Test Date/	Time	Tech**
Solids, Se	ettleable		< 0.1	mL/L	SM20 2540F	6/4/2014	16:50	JFE
Total Sus	pended Solids		4	mg/L	SM20 2540 D	6/4/2014		SW
Results (Comment:							
		00 -	-					
		Suc						
Reviewe	d by: Lab Man	ager, ELAP Lab II	#10924			1	16-Jun-14	
Kev: <=	less than: A=	Analysis performer	d over hold	ing time: B=B	OD blank depletion was	areater than 0.2 r	ma/L-	
					e: H=Sample received			

Key: <= less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit, mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO # 00020300-01

Client Project Name: Sample Location:

Rondout Creek

Duplicate/Site #5, grab

Order comment:

Order ID: 121504

Sample Number: 215861

Sample Type: Surface Water

Sample Collected By:

Alan Adin

Date/Time sample collected:

Date/Time sample received:

Received by:

6/3/2014

10:05

6/3/2014

11:45

Amy Jo

Sample Comment: FC rec'd at 17.5 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/4/2014 17:00	JFE
Total Suspended Solids	3	mg/L	SM20 2540 D	6/4/2014	SW

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

16-Jun-14

Key: < = less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

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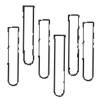
SMITH LABO 4 Scenic Drive Hyde Park, NY Phone: 845-22 Fax: 845-22	12538-1313 Turnaround Tir 9-6536 RUSH (Ru	sh surchar	ge app]	AIN	OF CU	Copy result Local Healt Yes	th Dept.	Login F Amt Du Amt Pa Pmt Me Receipt	ie: id: thod :		
Client Name:	CITY OF KINGSTON ss: 420 BROADWAY KINGSTON, NY 12401	_		Clien Copy	t Email	:aadin@ To:_RAL	kingston-ny PH SWENS	.govPws Fed	Location:			_
AB USE ONLY Order ID No:	CLIENT: COMPL	ETE THE				ATION IN	THE SPACE	CE PROVIDED BELOW	1	LA	B USE O	
Sample No:	Sample Identification & Sample Point	Matrix	Grab	Comp # hrs	First Draw	Treatment Type & Residual	Date/Time Sampled 6-3-14	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg-C	Pres. at Lab Y/N
2158848	SITE#1	sw	X				9:25 A	00	1-ILPLAS I-I/2 L PLAS	5	21.3	N/
19551	SITE #2	sw	X				9:40A	0.0	1-1LPLAS 1-1/2 L PLAS		19.1	· ·
856	SITE #3	sw	X				9:47A	SS TSS	I-ILPLAS I-1/2 L PLAS		19,7	1
857	SITE #4	SW	х				9:59A	SS TSS	1-ILPLAS I-1/2 L PLAS	1	19,2	
858	SITE #5	sw	х				10:05A	99	1-1LPLAS 1-1/2 L PLAS		21,7	
859	SITE #6	sw	Х				9:55A	SS TSS	1-ILPLAS 1-1/2 L PLAS		701	
860	SITE #7	sw	х				10:35A	SS TSS	1-ILPLAS 1-1/2 L PLAS	1	21.3	
1961	DUPLICATE	sw	х				10:05A	SS TSS	1-ILPLAS 1-1/2 L PLAS	1	20.8	1
- OVC								130				
ny knowledge. I a ample Relinquishe	also affirm that I am responsible for payment,		payment .	Arrangemo	ants are ap	proved in adv	ance by Smith	I hereby affirm that the Laboratory.	information above is tr	-	Time:	e best of
				_	Comm	ents:					ì	15
Other					0.31		in of Custody P	Deta B	eview Mor	2	Date 6	17.

SAMPLING EVENT #8

Weather: CLEAR Temperature: 416H, 70°,

Direction of Flow: OUT - EASTERLY

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-RONDOUT CREEK APPROX. 250 YOS	LATITUDE: 41.906	DO 8.3 mg/c	Grease NONE	TIDE: OUT FASTERLY OF FLENEY DRY
UPSTREAM OF WILBUR AVE. OUTFALL	LONGITUDE: 74.004	temperature 22 4°C	Floatables NOWE	DOCK AT PROPERTY BOUNDARY BETWEEN
	10:55A.		Odors Nove	FEEDEY AND RECYCLING BUSINESS BROWN - CLOUDY.
SITE # Z: MID-RONGOUT CREEK - UPSTREAM	LAT: 419/2 LONG: 73992	DO 3.5 m/L	Grease NOWE	SCYDS SOUTHERLY OF ISLAND DOCK
of Block Park	15447	temperature 20,80	Floatables NONE	CAUSEWAY CULVER
	11-10 A		Odors NONE	BROWN-a
SITE #3: MID- RONDOUT CREEK	LAT: 41 915	DO 85 mg/L	Grease None	25 YDS SOUTHER OLD STEEL
APPROX, 150 YDS UPSTREAM OF OLD	LONG: 73.985	temperature 20.6°C	Floatables None	BOILER PROTRUDING IN WATER NEAR
BRIDGE	11:20A		Odors NONE.	ISLAND DOCK BULKHE SUDY
SITE #6; MID- ROMDOUT CREEK	LAT: 41918	DO 8 4 mg/L	Grease NUL	TIDE: ONT EASTE CLEARWATER
UNDER NEW BRIDGE	LONG: 73.987	temperature 21.0 °C	Floatables NCAE	MAINTENANCE SHED LE SLIDE DOORS
	1/325A		Odors Nove	BROWN- DY.
RONDOUT CREEK	LAT: 41,919	DO 8.3. ng/L	Grease NONE	TIDE: ONT EASTER 50 YDS SOUTHERN STEELHOUSE
APPROX. 200 YDS	LON 6: 73.979	temperature 21.3°C	Floatables NOW	RESTAURANT COVER PATIC
NEW BRIDGE	11:30A		Odors NONE	31200W DY.
RONDONT CREEK	LAT: 41.922	DO 8.4 mg/L	Grease None	TIDE : ONT EASTER
IPSTREAM OF BLOCK	LONG: 73.964	temperature 21,8°C	Floatables Now	SO YDS SOUTHERLY SAS LINE CROSSING WARNIN - UN
PARK	11:40 A		Odors None	BROWN-CLANDY
SITE # 7: MID -	LAT: 41.889	DO 714 Ma -	Grease NONE	FLOW: ALLMY'S EASTERLY (DOWN'STREAM) - COCATION MOT TIDAL. STRAIGHT OUT FROM WESTERLY
3/4 MICE UPSTREAM OF DOYVILLE DAM AT	LON 6: 74.01	temperature 224 U	Floatables NONE	END BOAT LAVNCH
YSDEL BOAT LAUNCH	12:15P		Odors NEW	BROWN-CLONDY.
	LAT! SEE	DO	Grease	
DVPLI CATE	LONG: SITE #7	temperature	Floatables	SITE #7
			Odors	



4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

Order ID:

121905

Sample Number:

216746

Sample Location:

Site #1, grab

Sample Comment:

FC rec'd at 13.4 deg C.

Date/Time sample collected:

6/16/2014

10:55

Collected By:

Alan Adin Received by: Amy Jo

Date/Time sample received: Date/Time sample analyzed: 8/18/2014 6/16/2014

13:30 15:30

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

270

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by:(Lab Manager, ELAP Lab ID #10924

18-Jun-14



4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name: Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID: 121905

Sample Number:

216747 Site #2, grab

Sample Location:

FC rec'd at 14.9 deg C.

Sample Comment:

Date/Time sample collected: Date/Time sample received:

6/16/2014 11:10 6/16/2014 13:30

Collected By: Alan Adin Received by: Army Jo

Date/Time sample analyzed:

6/16/2014

15:30

Tech: 55

Test Method

Parameter Fecal Coliform Test Result* 340

Units CFU/100mL

SM 18 92220

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

18-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401

Client Project Name:

Rondout Creek Surface Water Sample Type:

Order comment:

Order ID: 121905

Sample Number:

216748 Site #3, grab

Sample Location: Sample Comment:

FC rec'd at 14.3 deg C.

Date/Time sample collected:

6/16/2014 11:20

Date/Time sample received:

6/16/2014 13:30 Collected By:

Alan Adin Received by: Amy Jo

Date/Time sample analyzed:

6/16/2014

Tech: SS

PQ#

Test Method

Parameter Fecal Collform **Test Result*** 220

15:30

Unite CFU/100mL

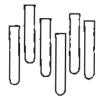
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab/Manager, ELAP Lab ID #10924

18-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston NY 12401

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

121905

Sample Number:

216749

Sample Location:

Site #4, grab

Sample Comment:

FC rec'd at 13.1 deg C.

Date/Time sample collected:

6/16/2014

11:30 13:30

15:30

Collected By:

Alan Adin Received by: Amy Jo

PQ#

Date/Time sample received: Date/Time sample analyzed: 6/16/2014 6/16/2014

Tech: S5

Test Method

Parameter Fecal Coliform Test Result* 320

Unite CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

18-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6538

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401

Client Project Name:

Rondout Creek Surface Water

Sample Type:

Order comment: Order ID:

121905

Sample Number:

216750

Sample Location:

Site #5, grab

Sample Comment:

FC rec'd at 14.8 deg C.

Date/Time sample collected:

6/16/2014 11:40

Collected By:

Alan Adin

Date/Time sample received:

6/16/2014 13:30

Received by: Amy Jo

Date/Time sample analyzed:

6/16/2014 15:30 Tech: SS

PO#

Test Method

Fecal Coliform

Parameter

Test Result* 260

Units CFU/100mL

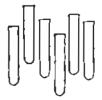
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

18-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

PO# Kingston NY 12401

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

Order ID:

121905

Sample Number:

216751

Sample Location:

Site #6, grab

Sample Comment:

FC rec'd at 16.3 dag C.

Date/Time sample collected:

6/16/2014 11:25

13:30

Collected By:

Alan Adin

Date/Time sample received:

6/16/2014

Received by:

Amy Jo

Date/Time sample analyzed:

15:30 6/16/2014

Tech: SS

Test Method

Parameter Fecal Coliform Test Result* 310

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

18-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

PO# NY 12401

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

121905

Sample Number:

216752

Sample Location:

Site #7, grab

Sample Comment:

FC rec'd at 16.4 deg C.

Date/Time sample collected:

6/16/2014 12:15 Collected By:

Alan Adin Received by: Amy Jo

Date/Time sample received: Date/Time sample analyzed: 6/16/2014 6/16/2014 13:30 15:30

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

240

CFU/100mL

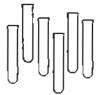
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

18-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

PO# Kingston NY 12401

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

Order ID:

121905

Sample Number:

216753

Sample Location:

Duplicate/Site #7, grab FC rec'd at 15.7 deg C.

Sample Comment: Date/Time sample collected:

6/16/2014 12:15 6/16/2014 13:30 Collected By: Received by:

Alan Adin Amy Jo

Date/Time sample received: Date/Time sample analyzed:

6/16/2014 15:30

Tech:

SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

360

CFU/100mL

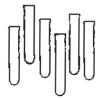
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

18-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

121905

Sample Number:

216788

Sample Location:

Blank-QC

Sample Comment:

100 mL of buffered rinse water used

Date/Time sample collected:

15:30

Collected By:

6/16/2014 6/16/2014

Date/Time sample received:

15:30

Received by: Amy Jo

Date/Time sample analyzed:

6/16/2014 15:30 Tech: SS

Parameter Test Result* Units **Test Method** Fecal Coliform < 1 CFU/100mL SM 18 9222D

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

18-Jun-14

^{*}Bacteriological test results are expressed as Colony Forming Units.



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston NY 12401

PO #

Sample Type:

Client Project Name:

Surface Water Rondout Creek

Order comment:

121905 Order ID:

Sample Number: 216746

Sample Location:

Site #1, grab

Date/Time sample collected:

6/16/2014 10:55

Sample Collected By:

Alan Adin

Date/Time samples received:

6/16/2014 13:30

Sample Received by:

Amy Jo

Sample Comment:

FC rec'd at 13.4 deg C

Test Method

Test Date Test Time

Tech**

Total Suspended Solids Solids, Settleable

Parameter:

Test Result Units 14 mg/L

SM20 2540 D SM20 2540F

6/17/2014 6/16/2014

SW LAE

14:10

121905 Order ID: Sample Location:

Site #2, grab

216747 Sample Number:

mL/L

Date/Time sample collected:

6/16/2014 11:10

< 0.1

Sample Collected By:

Alan Adin

Date/Time samples received:

6/16/2014 13:30

Sample Received by:

Amy Jo

Sample Comment:

FC rec'd at 14.9 deg C.

Parameter: Total Suspended Solids **Test Result** Units Test Method

Test Date Test Time

Tech** SW

Solids, Settleable

12 mg/L < 0.1 mL/L

SM20 2540 D SM20 2540F

6/17/2014 6/16/2014

14:10 LAE

121905 Order ID:

Sample Location:

Sample Number: 216748 Site #3, grab

Date/Time sample collected: Date/Time samples received: 6/16/2014 11:20 6/16/2014 13:30

Sample Collected By: Sample Received by:

Alan Adin Amy Jo

Sample Comment:

FC rec'd at 14.3 deg C.

Parameter: Total Suspended Solids Solids, Settleable

Test Result Units 7 mg/L

< 0.1

mL/L

Test Method SM20 2540 D

Test Date Test Time 6/17/2014

Tech** SW

Order ID: 121905 Sample Number: 216749

Sample Location: Date/Time sample collected:

Date/Time samples received:

Site #4, grab

SM20 2540F

6/16/2014

14:10 LAE

6/16/2014 11:30

Sample Collected By: Sample Received by:

Alan Adin Army Jo

Sample Comment:

6/16/2014 13:30 FC rec'd at 13.1 deg C.

Parameter: Test Result Units Total Suspended Solids 8

Test Method SM20 2540 D

Test Date Test Time 6/17/2014

Tech** SW

Solids, Settleable

mg/L < 0.1 mL/L SM20 2540F

6/16/2014

14:10 LAE



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston NY PO#

Order ID: 121905 Sample Number: 216750

Sample Location:

Site #5, grab

Date/Time sample collected:

6/16/2014 11:40

6/16/2014 13:30

Sample Collected By: Sample Received by:

Alan Adin Amy Jo

Date/Time samples received: Sample Comment:

FC rec'd at 14.8 deg C.

mg/L

12401

Test Result Units

Test Method SM20 2540 D

SM20 2540F

Test Date Test Time

Tech** SW LAE

14:10

14:10

14:10

Total Suspended Solids Solids, Settleable

Parameter:

Order ID: Sample Location:

6 < 0.1 mL/L

216751 Sample Number:

Site #6, grab

Date/Time sample collected: Date/Time samples received:

121905

6/16/2014 11:25 6/16/2014 13:30 Sample Collected By: Sample Received by:

Alan Adin Amy Jo

Sample Comment:

FC rec'd at 16.3 deg C.

Parameter: Test Result Units

Total Suspended Solids 8 mg/L Solids, Settleable < 0.1 mL/L SM20 2540 D SM20 2540F

Test Method

Test Date Test Time 6/17/2014 6/16/2014

6/17/2014

6/16/2014

6/17/2014

6/16/2014

Tech** SW LAE

Tech**

SW

LAE

Order ID:

121905

216752 Sample Number:

Site #7, grab

Date/Time sample collected: Date/Time samples received: 6/16/2014 12:15 6/16/2014 13:30 Sample Collected By: Sample Received by:

Alan Adin

Sample Comment:

Sample Location:

FC rec'd at 16.4 deg C.

Test Method Test Date Test Time

SM20 2540 D

SM20 2540F

Amy Jo

Parameter: **Total Suspended Solids** Test Result Units

12

mg/L

Solids, Settleable < 0.1 mL/L Order ID: 121905 216753 Sample Number:

Sample Location: Date/Time sample collected: Date/Time samples received: Duplicate/Site #7, grab 6/16/2014 12:15 6/18/2014 13:30

Sample Collected By: Sample Received by:

Alan Adin Amy Jo

Sample Comment:

FC rec'd at 15.7 deg C.

Test Result Units **Test Method** 10 mg/L SM20 2540 D SM20 2540F

Tech** Test Date Test Time 6/17/2014 SW

Total Suspended Solids Solids, Settleable

Parameter:

< 0.1 mL/L 6/16/2014

14:10 LAE



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6538

CERTIFICATE OF ANALYSIS

Client:	City of Kingston Engine Attn: Alan Adin 420 Broadway	ers Office	
	Kingston	NY 12401	PO#
Results	Comment:	S	

Key: <= less than; A=Analysis performed over holding time; C=d

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/k_=milligrams per Liter; mL/L=millititers per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/k-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report perions only to the above items analyzed on this sample os received by the laboratory. Information supplied by the client is assumed to be correct.

SMITH LA	ABOR	RATORY				CH	AIN	OF CU	STODY			Login R	eview:	سعادتي	
4 Scenic D						_						Amt Due			
			Turnaround Time						Copy result			Amt Pai			
Phone: 84			RUSH [] (Rush			lles)			Local Healt			Prnt Met	_		
Fax: 84	5-229	9-6538	** Date report re	quested:					Yes!	No [v]		Receipt !	No:		
Client Nan	ne: _	_CITY OF KINGS	ron			Clien	t Phone	No: _845-	334-3968		Project/Facility	y Name: _ROl	DOU	T CREEK	
Mailing Ac	ddress	s: 420 BROADWA	AY			Clien	t Email:	aadin@	kingston-ny.	gov	Locat	tion:			
			Y 12401					_		ON		lo: NY			
LAB USE OF		CLI	ENT: COMPLE	TE THE	SAMI	PLE IN	FORM/	ATION IN	THE SPAC	E PROVIDED	BELOW		LA	B USE OF	VLY_
Order ID N		Sample Ident	ification &]	(0	Check O	ne)	Treatment	Date/Time	Analy	sis	Container &	fced	Sample	Pres.
12 190° Sample No	2	Sample		Matrix	Grab	Comp # hrs	First Draw	Type & Residual	Sampled 6 16 14	Reques		Prescrvative	Y/N	Temp, Deg C	at Lab Y/N
216741	PPB	SITE#1		sw	X				10:55A			-ILPLAS -1/2 L PLAS	7.	17.3/174	N
. 74	71	SITE #2		sw	X				IV-10 A			-ILPLAS -1/2 L PLAS		169/17.4	Ì
74	őЦ	SITE #3		sw	X				11:20A		1-	-ILPLAS -1/2 L PLAS		13.4/ 158	
74		SITE #4		SW	Х				11:30A		1-	ILPLAS		136/7.1	\perp
75	011	SITE #5		SW	X			<u> </u>	11:40A		1-	ILPLAS I/2 L PLAS		11.2/17:	
75		SITE #6		SW	X				11:25A	SS TSS	1-	ILPLAS 1/2 L PLAS		1140	
75	7 !	SITE #7		SW	X				12:15P	SS TSS	l-	ILPLAS I/Z L PLAS		^{18.9} /18.8	'
1 79	53	DUPLICATE 5	TC#7	SW	Х				12-15P	SS TSS		1LPLAS 1/2 L PLAS	ļ	17.4/ 19	, —
												·			
Sampled By: (my knowledge	(Name) e. Lais	o affirm that I am respon	SOIN nsible for payment, un	less other p	ayment i	(Title) 🛂 zotsanc ap	proved in adv	AL TECH ance by Smith L	i hereby at shoratory.	firm that the inform	tation above is true	and co	mplete to the	e best of
Sample Reling	luished	By: tuta	401N			Receive	ed By:		Code			Date:			
Sample Reling	uished	Ву:				Receive	ed at Lab !	Ву:	Sr-			Date: 6/16	14	Time: <u>13</u>	30
		met the following requir	ements				Comm	ents:							
l		on: NA Yes No													
Correct Bottle															
Other							Smith Lai	boratory Chair	n of Custody Re	ev. 4 2/14	Data Review	v: Mot		Date /	1
									J. January Ki	,	APPLICATION				

SAMPLING EVENT #9

ATH

Date: 6.20.14

Page 1 of ___

Sampling Team:

YCAN ADIN/ ALLEN WINCHELL

Weather:

Initials:

SUNNY - HIGH 705

Temperature:

Direction of Flow:

24 EASTERLY.

LOW TIDE = 2:59 pm

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-RONDOUT CREEK APPROX. 250 YOS	LATITUDE: 41,906	DO 8.7 19/L.	Grease None	TIDE: OUT FASTERLY
DOSTREAM OF WILBUR	LONGITUDE: 74,004	temperature 25 8°C	Floatables were	APPROX.15 YDS WESTERLY OF FLEARY DRY DOCK AT PROPERTY BOUNDARY BETWEEN
AVE, 001:	1:10P'		Odors none.	FEEDEY AND RECYCLING BUSINESS
SITE #2: MID-ROWOUT CREEK - UPSTREAM		DO 8.7 my/c.	Grease Mone	50 YDS SOUTHERLY OF ISLAND DOCK
OF BLOCK PARK	LONG: 73.99	temperature 75.2°C	Floatables None	CAUSEWAY CULVERTS
	2:20 P.		Odors More	
SITE #3: MID- RONDOUT CREEK	LAT: 41,91	DO 3.8 m/L	Grease Nove	25 YDS SOUTHERL OLD STEEL
APPROX. 150 YDS	LONG: 73.98	temperature 25.2°C	Floatables none	ROLLER PROTRUDING MUATER MEAR
BRIDGE	Z:30P		Odors vione	ISLAND DOCK BULKHEA
SITE #6; MID- RONDOUT CREEK	LAT: 4192	DO 88 mg/L.	Grease Tone	TIDE: OUT EASTER 50 YDS SOUTHERLY CLEARWATER
INDER NEW BRIDGE	LONG: 73.95	temperature 24.6°C	Floatables NOV	MAINTENANCE SHED, LE SLIDE DOORS
	- 2.35p		Odors none	
RONDOUT CREEK	LAT: 41.92	DO 8.8 mg/L	Grease none	50 YDS SOUTHERLY STEELHOUSE
APPROX. ZOO YDS	LON6: 73.93	temperature 24.3°C	Floatables . renc	RESTAURANT COURTS ATIC
NEW BRIDGE	2:408		Odors vone	
RONDONT CREEK	LAT: 4192	DO 8.8 mg/c	Grease Nove	TIDE : OUT FASTE
PSTREAM OF BLOCK	LONG: 73.97	temperature 24.5%	Floatables Nane	50 YDS SOUTHERLY SAS LINE CROSSING WARNING SIGN
ARK	Z:47P		Odors Nort	
SITE # 7: MID -	LAT: 41 88	DO \$. On4/L		FLOW: ALWAYS EASTERLY (DOWN STREAM) - LOCATION MOT TIDAL. STRAIGHT OUT FROM WESTERLY
14 MILE UPSTREAM OF DOYVILLE DAM AT	LONG: 74.03	124 0 2		END BOAT LAVNCH
SYSTEL BOATLAUNCH	3.150		Odors nove	(8k) low, week
	LAT:	DO	Grease	
DUPLI CATE	LONG:	temperature	Floatables	SEE SITE #1
	SITE #1	/	Odors	

we was the

(tunny)

J



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

Order ID:

122080

Sample Number:

217141

Sample Location:

Site #1, grab

Sample Comment:

FC rec'd at 14.9 deg C.

Date/Time sample collected:

6/20/2014

14:10

Collected By:

Alan Adin

Date/Time sample received:

Received by:

Amy Jo

Date/Time sample analyzed:

6/20/2014 6/20/2014 16:10 17:30

Tech: SS

Parameter Fecal Coliform Test Result* < 10

Units CFU/100mL Test Method SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Leb ID #10924

24-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

PO # Kingston NY 12401

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

122080

Sample Number:

217142

Sample Location:

Site #2, grab

Sample Comment:

FC rec'd at 13.7 deg C.

Date/Time sample collected:

8/20/2014

14:20

Collected By:

Alan Adin

Date/Time sample received:

6/20/2014

16:10

Received by:

Amy Jo

Date/Time sample analyzed:

6/20/2014

17:30

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

50

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

24-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

Attn: Alan Adin 420 Broadway

Kingston 12401 PO#

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

Order ID:

122080

Sample Number:

217143

Sample Location:

Site #3, grab

Sample Comment:

FC rec'd at 13.3 deg C.

Date/Time sample collected: Date/Time sample received:

6/20/2014 14:30 6/20/2014 16:10 Collected By:

Alan Adin Received by: Amy Jo

Date/Time sample analyzed:

17:30

6/20/2014

Tech: SS

Parameter Fecal Coliform Test Result* 50

Units CFU/100mL **Test Method** SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units

Results Comment:

24-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401

PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

122080

Sample Number:

217144

Sample Location:

Site #4, grab

Sample Comment:

FC rec'd at 14.8 deg C.

6/20/2014

14:40

Collected By:

Alan Adin

Date/Time sample collected: Date/Time sample received:

6/20/2014 16

16:10

Received by: Amy Jo

Date/Time sample analyzed:

6/20/2014 16:10 6/20/2014 17:30

Tech: SS

Test Method

Parameter Fecal Coliform Test Result*

Units CFU/100mL

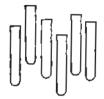
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Cab Manager, ELAP Lab ID #10924

24-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

Order ID: 122080

Sample Number:

217145

Sample Location:

Site #5, grab

Sample Comment:

FC rec'd at 9.9 deg C.

Date/Time sample collected:

6/20/2014

14:47

Collected By:

Received by: Amy Jo

Date/Time sample received: Date/Time sample analyzed: 6/20/2014 6/20/2014 16:10 17:30

Tech:

SS

Alan Adin

Parameter

Test Result⁴

Units

Test Method

Fecal Coliform

80

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

24-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

122080

Sample Number:

217146

Sample Location:

Site #6, grab

Sample Comment:

FC rec'd at 16.9 deg C.

Date/Time sample collected:

6/20/2014

14:35

Collected By:

Alan Adin

Date/Time sample received:

6/20/2014

16:10

Received by: Am

Amy Jo

Date/Time sample analyzed:

6/20/2014

17:30

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

20

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Łab Manager, ELAP Lab ID #10924

24-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO #

Client Project Name: Sample Type: Rondout Creek Surface Water

Order comment:

Order ID: 122080

Sample Number: 217147
Sample Location: Site #7, grab

Sample Comment: FC rec'd at 15.3 deg C.

Date/Time sample collected:6/20/201415:15Collected By:Alan AdinDate/Time sample received:6/20/201416:10Received by:Amy JoDate/Time sample analyzed:6/20/201417:30Tech:SS

 Parameter
 Test Result*
 Units
 Test Method

 Fecal Coliform
 10
 CFU/100mL
 SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

24-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

122080

Order ID:

Sample Number:

217148

Sample Location:

Duplicate, Site #1, grab

Sample Comment:

FC rec'd at 18.9 deg C. 6/20/2014 14:10

Date/Time sample collected: Date/Time sample received:

8/20/2014 16:10 Collected By:

Alan Adin Received by: Amy Jo

Date/Time sample analyzed:

6/20/2014 17:30

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

60

CFU/100mL

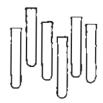
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by (Lab Manager, ELAP Lab ID #10924

24-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

122080

Sample Number:

217246

Sample Location:

Blank-QC

Sample Comment:

100 mL buffered rinse water used

Date/Time sample collected:

6/20/2014

Date/Time sample received:

17:30

Collected By:

6/20/2014 17:30 Received by: Amy Jo

Date/Time sample analyzed:

6/20/2014

Tech: SS

17:30

Units

Test Method

Parameter Fecal Coliform Test Result* < 1

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

24-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Sample Type:

Client Project Name:

Surface Water Rondout Creek

Order comment:

Order ID: 122080

Sample Number:

Sample Location:

Site #1, grab

Date/Time sample collected:

5/20/2014 14:10 6/20/2014 16:10 Sample Collected By: Sample Received by: Alan Adin Amy Jo

Date/Time samples received: Sample Comment:

FC rec'd at 14.9 deg C.

Total Suspended Solids

Test Result Units 4 mg/L

Test Method

Test Date Test Time

Tech** SW

Solids, Settleable

Parameter:

0.1 mL/L SM20 2540 D SM20 2540F

6/24/2014 6/20/2014

JFE

16:30

Order ID: 122080 Sample Location:

Sample Number: 217142 Site #2, grab

Date/Time sample collected: Date/Time samples received: 6/20/2014 14:20

6/20/2014 16:10

Sample Collected By: Sample Received by:

Alan Adin Amy Jo

Sample Comment:

FC rec'd at 13.7 deg C.

Parameter: Total Suspended Solids Test Result Units

Test Method

Test Date Test Time

Tech** SW

Solids, Settleable

5 mg/L < 0.1 mL/L SM20 2540 D SM20 2540F

6/24/2014 6/20/2014

16:30 **JFE**

Order ID:

Sample Number: 217143

Sample Location:

Site #3, grab

Date/Time sample collected: Date/Time samples received:

122080

6/20/2014 14:30 6/20/2014 16:10 Sample Collected By: Sample Received by:

Sample Comment:

Alan Adin Amy Jo

FC rec'd at 13.3 deg C.

Parameter: Total Suspended Solids Solids, Settleable

Test Result Units 3 mg/L mL/L

Test Method SM20 2540 D SM20 2540F

Test Date Test Time 6/24/2014 6/20/2014

Tech** SW 16:30 **JFE**

Order ID:

122080

217144 Sample Number:

Sample Location: Date/Time sample collected: Date/Time samples received:

Site #4, grab 6/20/2014 14:40 6/20/2014 16:10

Sample Collected By: Sample Received by:

Alan Adin Amy Jo

Sample Comment:

FC rec'd at 14.6 deg C.

Total Suspended Solids

Unite 5 mg/L < 0.1

Test Method SM20 2540 D SM20 2540F

Test Date Test Time

Tech** SW JFE

Parameter:

Solids, Settleable

Test Result

mL/L

6/24/2014 6/20/2014

16:30



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Order ID: 122080 217145 Sample Number: Site #5, grab Sample Location: Date/Time sample collected: 6/20/2014 14:47 Sample Collected By: Alan Adin Date/Time samples received: 6/20/2014 16:10 Sample Received by: Amy Jo Sample Comment: FC rec'd at 9.9 deg C. Test Result Units Test Method Test Date Test Time Tech** Parameter: SM20 2540 D 6/24/2014 SW Total Suspended Solids mg/L Solids, Settleable < 0.1 mL/L SM20 2540F 6/20/2014 16:30 JFE 122080 217146 Order ID: Sample Number: Site #6, grab Sample Location: 6/20/2014 14:35 Alan Adin Date/Time sample collected: Sample Collected By: Date/Time samples received: 6/20/2014 16:10 Sample Received by: Amy Jo Sample Comment: FC rec'd at 16.9 deg C. Test Result Units **Test Method** Test Date Test Time Tech** Parameter: SM20 2540 D 8/24/2014 SW Total Suspended Solids mg/L 6/20/2014 16:30 JFE Solids, Settleable 0.1 mL/L SM20 2540F 217147 Order ID: 122080 Sample Number: Sample Location: Site #7, grab 6/20/2014 15:15 Sample Collected By: Alan Adin Date/Time sample collected: Date/Time samples received: 6/20/2014 16:10 Sample Received by: Amy Jo FC rec'd at 15.3 deg C. Sample Comment: Units Test Method Test Date Test Time Tech** Parameter: **Test Result** 6/24/2014 sw Total Suspended Solids mg/L SM20 2540 D 4 SM20 2540F 6/20/2014 **JFE** Solids, Settleable < 0.1 mL/L 16:30 217148 Order ID: 122080 Sample Number: Sample Location: Duplicate, Site #1, grab 6/20/2014 14:10 Sample Collected By: Alan Adin Date/Time sample collected: 6/20/2014 16:10 Date/Time samples received: Sample Received by: Amy Jo FC rec'd at 18.9 deg C. Sample Comment: Tech** Test Date Test Time Parameter: Test Result Units **Test Method** SW SM20 2540 D 6/24/2014 Total Suspended Solids 6 mg/L JFE Solids, Settleable < 0.1 mL/L SM20 2540F 6/20/2014 16:30



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engin Attn: Alan Adin 420 Broadway Kingston	eers Office NY 12401	PO#							
Comment:									
Jen									
= less than; A=Analysis than 0.2 mg/L; D=Eleve =Result estimeted below on Limit; mg/kg=milligrar Detected; NTU=Nephe nce criteria; SI = Saturat crograms per Liter; umh	performed over holding til led reporting limit; Est=Es quantitation limit; MC=N ns per kllogram dry weight lometric Turbidity Units; P ion Index; SU=Standard pl p/cm=micromhos per cent	03-Jul-14 time; C=degrees Celsius; B=BOD blank depletion was stimated Value; H=Sample received over analysis holding New York State Maximum Contaminant Level; MDL=Method nt; mg/L=milligrams per Liter; mL/L=milligrams per Liter; PtCo=Platinum Cobalt Units; Q=Not all QC data met oH Units; TON=Threshold Odor Number at 44.5 degrees C; ntimeter; V=Value above quantitation range; *ELAP/NELAC							
ory Accreditation Conference	nce (NELAC) Standards. T	g Laboratory in conformance with the National Environmental This test report pertains only to the above items analyzed on this ttion supplied by the client is assumed to be correct.							
Total nur	nber of pages in this repor	ort, including chain of custody, is							
	Attn: Alan Adin 420 Broadway Kingston Comment: ed by: Laboratory Man = less than; A=Analysis than 0.2 mg/L; D=Elevel Result estimated below on Limit; mg/kg=milligran Detected; NTU=Nephel nce criteria; SI = Saturat crograms per Liter; umb t offer certification for this Laboratory is approved a ory Accreditation Confere sample as received I	Kingston NY 12401 Comment: ### Comment: ##### Comment: ##### Comment: ##### Comment: ####### Comment: ###################################							

SMITH LABORATORY					CHAIN OF CUSTODY					Login Review: 1777				
4 Scenic Drive				_						Amt Due:				
Hyde Park, NY 12538-1313 Turnaround Time: Standard √									_	Amt Paid:				
Phone: 845-229-6536 RUSH (Rush surcharge applie				pplies) Local Health Dept.						Pmt Method:				
Fax: 845-229-6538 ** Date report requested:				Yes No V						Receipt No:				
Client Name:	_CITY OF KINGSTON			Clien	t Phone	No: _845-	-334-3968	Project/Fac	ility Name	RON	DOU	r creek	K	
Mailing Addres	ss: 420 BROADWAY							gov Lo						
	KINGSTON, NY 12401			• • •	-	_		ON PWS Fed II	D No: NY-	· <u> </u>				
LAB USE ONLY	CLIENT: COMPLE	TE THE	SAMI	PLE IN	FORM.	ATION IN	THE SPAC	E PROVIDED BELOW	 -		LAI	B USE OF	VLY	
Order ID No:			(Check One) Grab Comp First		Treatment Type &	Date/Time Sampled	Analysis Requested	Container & Preservative		Iced Y/N	Sample Temp,	Pres.		
Sample No:				# hrs	Draw	Residual	6 20.14	·				Deg-C	Y/N	
21714/8	SITE #1	sw	Х				Z10P	SS TSS	1-1LPLAS 1-1/2 L PLA	ıs _		20.90 L	. 7	
1142	SITE #2	sw	X				2:200	SS TSS	1-1LPLAS 1-1/2 L PLA	<u>د</u>		32.9/ /21.		
113	SITE #3	SW	Х				2:30p	SS TSS	1-1LPLAS 1-1/2 L PLA	ıs		^{22,3} /18.9		
194	SITE #4	sw	Х				2:40p	SS TSS	1-1LPLAS 1-1/2 L PLA	ıs		16.4/15)		
145	SITE #5	SW	X				2:479	SS TSS	1-1LPLAS 1-1/2 L PLA	.s		13.7/169		
146	SITE #6	SW	Х				2.350	SS TSS	1-ILPLAS 1-1/2 L PLA	.s		329/1.E		
147	SITE #7	SW	Х				3:15P	SS TSS	1-ILPLAS 1-1/2 L PLA	s		9.9/1.4 208	}	
= 1761	DUPLICATE SITE#1	sw	Х				2:107	SS TSS	1-1LPLAS 1-1/2 L PLA	s	1	21.4/7.1		
													·	
Sampled By: (Nammy knowledge. I a	e) FTCHN ADIN Iso affirm that I am responsible for payment, a	inless other p	oayment :	<u>யாவா</u> த்தோம்	Title) 🚉	proved in adv	ance by Smith	Thereby affirm that the inf	formation abo	we is true	and co	mplete to th	e best of	
Sample Relinquishe	MBY ITCHE HOIN			Receive	ed By:		- 0		Date			Time:		
Sample Relinquished By: Rece				Receiv	eived at Lab By:					Date 6/20/14 Time: 16/0				
1 ' ' '	met the following requirements				Comm	ents:								
ł	ion: NA Yes. No			— I										
1	tion (NA) Yes No													
Correct Bottle Typ	e Yes_No							_						
Other					Smith La	boratory Chai	in of Custody R	ev. 4, 2/14 Data Rev	view: Mgr	$-\chi$		Date /	1	

Attach nt 1 - Sampling Event Summary Sheet

SAMUNG EVENT #10

Initials:

ATH

Date: 6 23.14 Page of ___

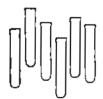
Sampling Team:

Weather:

Temperature: HIGH 70.1

Direction of Flow: W-WESTERLY. #164 MDE: 11:47A

Sampling Location	Time	Field Parameter	Physical Observations	
SITE #1: MID-ROLDOUT CREEK APPROX. 250 YOS UPSTREAM OF WILBUR AVE. OUTFALL	LATITIDE: 41.906 LONGITUDE: 74,004	temperature 25.1°C	Grease NEXE Floatables MINIMAL- Odors NOWE	TIDE: IN WESTERLY OF FEEREY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEEREY AND RESYLUNG BUSINESS.
SITE #2: MID-ROWAY CREEK - UPSTREAM OF BLOCK PARK	LAT: 4191 LONG: 73.99	DO 9.5 m/c temperature 24.6 c	Grease Nove	TIDE: IN WESTERLY 50 YOS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVER-
SITE #3: MID- ROMDAIT CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.91 LONG: 739.8 10:50A	DO 9.3 mg/L temperature 24.5°C	Grease NOWE Floatables NOWE Odors NOWE	TIDE: IN VESTERU 25 YDS SOUTHERL OLD STEEL BOILER PROTRUDING MUSTER NEAR ISLAND DOCK BULKHER
SITE #6; MID- ROMDOUT CREEK UNDER NEW BRIDGE	LAT: 41.92 LONG: 73.98	DO 8.9 mg/L temperature 24.5°C	Grease None Floatables None Odors None	TIDE: IN WESTER! SO YDS SOUTHERLY CLEARWATER MAINTENANCE SHED, LE SLIDE DOORS
SITE #4: MID- PONDOUT CREEK APPROX. ZOO YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.92 LONG: 73.98	temperature 23.5°C	Grease NONE Floatables None Odors NONE	TIDE: IN MESTER 50 YDS SOUTHERLY STEELHOUSE RESTAURANT COMBRE ATTO
SITE #5: MID- RONDOUT CREEK VPSTREAM OF BLOCK PARK	LAT: 41.92 LONG: 73.47	temperature 23, 7°C	Grease Nove Floatables Nove	TIDE: LAVESTE 50 YDS SOUTHERLY SAS LINE CROSSING WARNING N MILKY BROWN
SITE # 7: MID - RONDOUT CREEK APPROX. 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NYSDEC BOAT LAUNCH	LAT: 41.90 LONE: 74.03	DO '8.4' temperature 35.1	Grease Noive	FLOW: ALWAYS EASTERLY (DOWN STREAM) - LOCATION MOTTIDAL. STRAIGHT OUT FROM WESTERLY END BOAT LAVNCH / VEGETATIVE WATTER
DVPLI CATEL	LAT: LONG: 5 (TE#2	DO temperature	Grease Floatables Odors	SEÉ SITÉ #Z



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

122107

Sample Number:

217213

Sample Location:

Site #1, grab

Sample Comment:

FC rec'd at 16.2 deg C

Date/Time sample collected:

6/23/2014

10:30

Collected By:

Alan Adin

Date/Time sample received:

6/23/2014

15:00

Received by:

Karolina

Date/Time sample analyzed:

6/23/2014

16:00

Tech: SS

Test Method

Parameter Fecal Coliform Test Result* 80

Units CFU/100mL

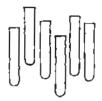
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

26-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

12401 PQ# Kingston NY

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

122107

Sample Number:

217214

Sample Location:

Site #2, grab

6/23/2014

Sample Comment:

Fecal Coliform

FC rec'd at 13.1 deg C

Date/Time sample collected:

6/23/2014 10:40 Collected By:

Alan Adin

Date/Time sample received:

6/23/2014

15:00

Karolina Received by:

Date/Time sample analyzed:

16:00

< 10

Tech: SS

Test Result* Units Test Method Parameter CFU/100mL SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

25-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attл: Alan Adin 420 Broadway

PO# Kingston NY 12401

Client Project Name: Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID: 122107

Sample Number: Sample Location: 217215 Site #3, grab

Sample Comment:

FC rec'd at 6.9 deg C

Date/Time sample collected: Date/Time sample received:

6/23/2014

10:50 15:00 Collected By: Alan Adin Karolina Received by:

Tech: SS

Date/Time sample analyzed:

6/23/2014 6/23/2014

16:00

Units

Test Method

Parameter **Fecal Coliform** Test Result* < 10

CFU/100mL

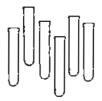
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

26-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8538

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attri: Alan Adin 420 Broadway

12401 PO# NY Kingston

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

122107

Sample Number:

217216

Sample Location:

Site #4, grab

Sample Comment:

FC rec'd at 20.8 deg C

Date/Time sample collected:

6/23/2014

11:02

Collected By:

Alan Adin

Date/Time sample received:

15:00

Received by:

6/23/2014

SS

Karolina

Date/Time sample analyzed:

6/23/2014 16:00

Tech:

Test Method

Parameter Fecal Coliform Test Result* < 10

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

26-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

PO# Kingston NY 12401

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

Order ID: 122107

Sample Number:

217217

Sample Location:

Site #5, grab

Sample Comment:

FC rec'd at 5.5 deg C

Date/Time sample collected:

6/23/2014 11:10

Date/Time sample received:

6/23/2014 15:00 Collected By:

Alan Adin

Received by:

Karolina

Data/Time sample analyzed:

6/23/2014 16:00

Tech: SS

Parameter Fecal Coliform Test Result* 50

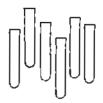
Units CFU/100mL **Test Method** SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

26-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

PO# Kingston NY 12401

Client Project Name:

Rondout Creek Surface Water Sample Type:

Order comment:

122107 Order ID:

Sample Number:

217218 Site #8, grab Sample Location:

Sample Comment:

FC rec'd at 14.8 deg C

Date/Time sample collected: Date/Time sample received:

6/23/2014 10:56

Collected By:

Alan Adin Karolina

Date/Time sample analyzed:

6/23/2014 15:00 6/23/2014 15:00 Received by: Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

50

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

26-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

12401 PO# Kingston NY

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

Order ID:

122107

Sample Number:

217219

Sample Location:

Site #7, grab

Sample Comment:

FC rec'd at 13.4 deg C

Date/Time sample collected: Date/Time sample received:

6/23/2014 11:37 6/23/2014 15:00 Collected By: Alan Adin

Received by: Karolina

Date/Time sample analyzed:

6/23/2014 16:00 Tech: SS

Parameter Fecal Coliform

Test Result* 10

Units CFU/100mL **Test Method** SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

26-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston 12401 PO#

Client Project Name: Rondout Creek

Surface Water Sample Type:

Order comment:

Order ID: 122107

217220 Sample Number:

Duplicate, Site #2, grab Sample Location: Sample Comment: FC rec'd at 10.1 deg C

Data/Time sample collected: 6/23/2014 10:40 Collected By: Alan Adin Date/Time sample received: 6/23/2014 15:00 Received by: Karolina Date/Time sample analyzed: 6/23/2014 16:00 Tech: SS

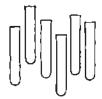
Parameter Test Result* Units **Test Method Fecal Coliform** 10 CFU/100mL SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

26-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

122107

Sample Number:

217245

Sample Location:

Parameter

Fecal Coliform

Blank-QC

Sample Comment:

100 mL of buffered rinse water used

Test Result*

< 1

Date/Time sample collected:

6/23/2014 16:00

Collected By:

Date/Time sample received:

6/23/2014

Received by: Karolina

Date/Time sample analyzed:

6/23/2014

16:00 16:00

Tech: St

, GC

 Units
 Test Method

 CFU/100mL
 SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

26-Jun-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Sample Type: Client Project Name: Surface Water Rondout Creek

Order comment:

Order ID: 122107 Sample Number: 217213

Sample Location:
Date/Time sample collected:

Date/Time samples received: 6/23/2014 15:00
Sample Comment: FC rec'd at 16.2 deg C

Parameter: **Test Result** Units **Test Method** Test Date Test Time Tech** Total Suspended Solids 8 mg/L SM20 2540 D 6/24/2014 SW Solids, Settleable < 0.1 mL/L SM20 2540F 6/23/2014 15:20 LAE

Order ID: 122107 Sample Number: 217214

Sample Location: Site #2, grab

Date/Time sample collected:6/23/201410:40Sample Collected By:Alan AdinDate/Time samples received:6/23/201415:00Sample Received by:Karolina

Sample Comment: FC rec'd at 13.1 deg C

Test Result Parameter: Test Date Test Time Tech** Units Test Method Total Suspended Solids SW 6 mq/L SM20 2540 D 6/24/2014 Solids, Settleable < 0.1 mL/L SM20 2540F 6/23/2014 15:20 LAE

Order ID: 122107 Sample Number: 217215

Sample Location: Site #3, grab

Date/Time sample collected:6/23/201410:50Sample Collected By:Alan AdinDate/Time samples received:6/23/201415:00Sample Received by:Karolina

Sample Comment: FC rec'd at 6.9 deg C

Parameter: **Test Result** Units **Test Method** Test Date Test Time Tech** Total Suspended Solids 8 mg/L SM20 2540 D 6/24/2014 SW Solids, Settleable < 0.1 mL/L SM20 2540F 6/23/2014 15:20 LAE

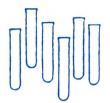
Order ID: 122107 Sample Number: 217216

Sample Location: Site #4, grab

Date/Time sample collected:6/23/201411:02Sample Collected By:Alan AdinDate/Time samples received:6/23/201415:00Sample Received by:Karolina

Sample Comment: FC rec'd at 20.8 deg C

Parameter: **Test Result** Units **Test Method** Test Date Test Time Tech** SW Total Suspended Solids 6/24/2014 8 mg/L SM20 2540 D Solids, Settleable < 0.1 mL/L SM20 2540F 6/23/2014 15:20 LAE



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO #

Order ID: 122107 Sample Number: 217217

Sample Location: Site #5, grab

Date/Time sample collected: 6/23/2014 11:10 Sample Collected By: Alan Adin Date/Time samples received: 6/23/2014 15:00 Sample Received by: Karolina

Sample Comment: FC rec'd at 5.5 deg C

Test Date Test Time Tech** Parameter: **Test Result** Units **Test Method** 6/24/2014 SW Total Suspended Solids 14 ma/L SM20 2540 D 6/23/2014 15:20 LAE Solids, Settleable < 0.1 mL/L SM20 2540F

Order ID: 122107 Sample Number: 217218

Sample Location: Site #6, grab

Date/Time sample collected:6/23/201410:56Sample Collected By:Alan AdinDate/Time samples received:6/23/201415:00Sample Received by:Karolina

Sample Comment: FC rec'd at 14.8 deg C

Test Method Test Date Test Time Tech** Parameter: Test Result Units SW Total Suspended Solids 5 mq/L SM20 2540 D 6/24/2014 Solids, Settleable < 0.1 mL/L SM20 2540F 6/23/2014 15:20 LAE

Order ID: 122107 Sample Number: 217219

Sample Location: Site #7, grab

Date/Time sample collected:6/23/201411:37Sample Collected By:Alan AdinDate/Time samples received:6/23/201415:00Sample Received by:Karolina

Sample Comment: FC rec'd at 13.4 deg C

Parameter: **Test Result** Units **Test Method** Test Date Test Time Tech** 6/24/2014 SW Total Suspended Solids 2 mg/L SM20 2540 D Solids, Settleable < 0.1 mL/L SM20 2540F 6/23/2014 16:20 LAE

Order ID: 122107 Sample Number: 217220 Sample Location: Duplicate, Site #2, grab

Date/Time sample collected:6/23/201410:40Sample Collected By:Alan AdinDate/Time samples received:6/23/201415:00Sample Received by:Karolina

Sample Comment: FC rec'd at 10.1 deg C

Test Date Test Time Tech** **Test Method** Parameter: **Test Result** Units SW Total Suspended Solids 5 mg/L SM20 2540 D 6/24/2014 SM20 2540F 6/23/2014 16:20 LAE Solids, Settleable < 0.1 mL/L



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401

PO #

Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

14-Jul-14

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

Total number of pages in this report, including chain of custody, is

SMITH LABO	RATORY			CH	AIN	OF CUS	STODY		Login R		w	
4 Scenic Drive			_						Amt Du			
Hyde Park, NY			_	_			Copy result	ts to	Amt Pai			
Phone: 845-22	9-6536 RUSH (Rus	h surchar	ge app	lies)			Local Healt		Pmt Me	thod:		
Fax: 845-22	9-6538 ** Date report r	equested:					Yes	No √	Receipt	No:		
Client Name: _	CITY OF KINGSTON			Clien	t Phone	No: _845-	334-3968	Project/Fac	ility Name: _RO	N DO U	T CREE	
Mailing Address	ss: 420 BROADWAY	_		Clien	t Email:	aadin@	kingston-ny.	.gov Lo	cation:			
	KINGSTON, NY 12401			Сору	Report	To: _RAL	PH SWENS	ON PWS Fed II	O No: NY			
LAB USE ONLY	CLIENT: COMPLE	TE THE	SAMI	PLE IN	FORMA	ATION IN	THE SPAC	E PROVIDED BELOW		LA	B USE O	NLY
Order ID No: 122/07	Sample Identification & Sample Point	Matrix		Check O		Treatment Type &	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp,	Pres.
Sample No:	Sample Form	Madia	Grab	Comp # hrs	First Draw	Residual	6-23-14	Requested	Tieservative	1/14	Deg C	Y/N
017613A5	SITE #1	SW	Х				10:304	SS TSS	1-1LPLAS 1-1/2 L PLAS	4	13.3	N
217214 AT	SITE #2	SW	Х				10:40A	SS TSS	1-1LPLAS 1-1/2 L PLAS	1	13	
2172158	SITE #3	SW	Х				10:50A	SS TSS	1-1LPLAS 1-1/2 L PLAS		12.1	
217216 AB	SITE #4	SW	Х				11:02A	SS TSS	1-1LPLAS 1-1/2 L PLAS		18.9	
31721796	SITE #5	SW	X				11:10.A	SS TSS	1-1LPLAS 1-1/2 L PLAS		12.8	
21721848	SITE #6	SW	Х				10:56A	SS TSS	1-1LPLAS 1-1/2 L PLAS		17.1	
31721916	SITE #7	sw	Х				11:37A	SS TSS	1-ILPLAS 1-1/2 L PLAS		22.3	
21722011	DUPLICATE SITE#2	sw	X				10:40A.	SS TSS	I-ILPLAS I-I/2 L PLAS	I	18.7	1
Sampled By: (Name my knowledge. I a	e) ALAN ADIN Iso affirm that I am responsible for payment, u	nless other p	ayment	(Title)	DGINEE proved in adv	AING T	ECH. I hereby affirm that the inf	formation above is tru	e and co	mplete to th	e best of
Sample Relinquishe	d By: ACAN ADIN.			Receive	ed By:	1/1	/ /)		Date:	27/10	Time:	
Sample Relinquishe	d By:			Receive	ed at Lab	ву: УИ	legan	1	Date:	15/17	Time:	PM
Sample(s) received	met the following requirements	,			Comm	ents:	0					
Thermal Preservati	ion: NA (Yes) No			-								
Chemical Preserva	tion: NA Yes No				-							
Correct Bottle Type	e Yes No											f.
Other			٠.		Smith I a	horatory Chai	n of Custody R	ev 4 2/14 Data Data	view Mar	7	Date	112

Λ .1

OVEZCAST/PUST PAINEURT

Date: 7-8-14

Page ___ of ___

Sampling Team:

Initials:

Weather:

A. Adin / A. Windhell

Temperature:

Direction of Flow:

IN WESTERRY - HIGHTIDE 6:15P

DAIN /T. STREWS ROWNERS ED VISE/END ~ 5.455

Sampling Location	Time	Field Parameter	Physical Observations	(-5\0000) (Grantwict) V/-5 (V/-000)
SITE #1: MID-ROLDOUT CREEK APPROX. 250 YOS UPSTREAM OF WILBUR	LATINGE: AL AUT.	DO 7.5 ~41L	Grease NONE	TIDE: METERLY OF FLENEY DRY
AVE, OUTFALL	- 6:15 PM	temperature ろしろし	Odors NOW.	DOCK AT PROPERTY BOUNDARY BETWEEN FEEDEY AND RECYCLING BUSINESS
SITE #Z: MID-RANGOT CREEK - UPSTREAM OF BLOCK PARK	LAT: 41 912 LONG: 73,992.	DO 7.6. ~ 1/L temperature 26 400	Grease NONE	SO YOS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVERTS
	51758	temperature 30, kg	Odors NUNE	SPORADIC LARGE WOOD DEBRIS.
SITE #3: MID- RONOUT CREEK APPROX. 150 YOS	LAT: 41.915 LONG: 73.984	DO 5.3 ~7/L.	Grease NoW-	TIDE: MINIESTERCY. OT EASTERLY 25 YDS SONTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEAR
UPSTREAM OF OLD BRIDGE	6 x 302.	temperature 26.38	Odors NUNE	INTER LEGISCOLING LEGIS MALES WERE
SITE #6: MID- ROMDOUT CREEK	LAT: 41.918 LONG: 73.981	DO 8.4-7/L	Grease NINE	TIDE: DUT EASTERLY OF CLEAR WATER
UNDER NEW BRIDGE	0.350	temperature 16.14	Ploatables NOW.	MAINTENANCE SHED, DOUBLE SLIDE DOORS
SITE #4; MID - PONDOUT CREEK	LAT: 41,919 LONG: 73,979	DO 8 4 7/L	Grease NOVE	TIDE : OVT EASTE 50 YDS SOUTHERLY IF STEELHOUSE
APPROX. ZOO YDS DOWNSTREAM OF NEW BRIDGE	6:40p	temperature 26.12	Odors NONE	RESTAURANT CONER PATIO VEGETATI WATTER
SITE #5: MID- ROMONT CREEK	LAT: 41.922 LONG: 73.969	DO 9.5 mg/L	Grease NONE	TIDE: OVIEASTI SO YDS SOUTHERLY GAS LINE
VPSTREAM OF BLOCK PARK	6:45P	temperature ZC, 4°C	Ploatables NONE Odors NONE	CROSSING WARNIN NGN
SITE # 7: MID - ROMONT CREEK APPROX.	LAT: A1.90	DO 5.7. mg/L	Grease NONE	FLOW: ALWAYS EASTER DOWN STREAM) - LOCATION MOTTIDAL. STRAIGH IT FROM WESTERLY
3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NYSDEC BOAT LAUNCH	7.15P	temperature 25.6°C	Floatables MODERATE Odors NONE.	STICKS DEBRIS SETATIVE MATTE
	LAT;	DO	Grease	5 TE #.
DVPLI CATE	LONG: SITE#4		Floatables) 1104"
			Odors	



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

122376

Sample Number:

217840

Sample Location:

Site #1, grab FC rec'd at 8.3 deg C.

Sample Comment: Data/Time sample collected: Data/Time sample received:

7/2/2014

18:15

Collected By: AW

7/2/2014 20:10 7/2/2014

Received by:

Date/Time sample analyzed:

20:55

Amy Jo Tech: AGS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

270

CFU/100mL

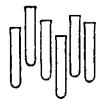
SM 18 9222D

*Becteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

122376

Sample Number:

217841

Sample Location:

Site #2, grab

Sample Comment:

FC rec'd at 10.4 deg C.

Data/Time sample collected: Data/Time sample received: 7/2/2014 7/2/2014 18:25 20:10 Collected By:

r: Amy Jo

Data/Time sample analyzed:

7/2/2014 7/2/2014 20:10

Received by:

Tech: AGS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

70

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jul-14

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report periains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

The total number of pages in this report is 1 (one).



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

12401

PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

122376

Sample Number:

217842

Sample Location:

Site #3, grab

Sample Comment:

FC rec'd at 13.3 deg C.

Date/Time sample collected: Date/Time sample received: Date/Time sample analyzed:

7/2/2014 18:30 Collected By:

7/2/2014

7/2/2014

20:10 20:55

AW Received by: Amy Jo

Tech: AGS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

40

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by, Lab, Manager, ELAP Lab ID #10924

07-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

122376

Sample Number:

217843

Sample Location:

Site #4, grab FC rec'd at 13.1 deg C.

Sample Comment: Date/Time sample collected:

7/2/2014

7/2/2014

18:40

20:55

Collected By: AW

Date/Time sample received: Date/Time sample analyzed: 7/2/2014

20:10

Received by: Amy Jo

Tech: AGS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

7000 (Est)

CFU/100mL

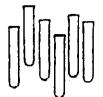
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment: (Est): Represents an estimated count due to overcrowding growth.

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

12401

PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

122376

Sample Number:

217844

7/2/2014

Sample Location: Sample Comment: Site #5, grab FC rec'd at 12.7 deg C.

Date/Time sample collected:

7/2/2014 18:45

Collected By: AW

Date/Time sample received: Date/Time sample analyzed: 7/2/2014 20:10

Received by: Tech:

Amy Jo AGS

Parameter

Test Result*

20:55

Units

Test Method

Fecal Coliform

470

CFU/100mL

SM 16 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Sample Type:

Order comment:

Order ID:

Rondout Creek

Surface Water

122376

Sample Number:

217845 Site #6, grab

Sample Location: Sample Comment:

FC rec'd at 12.2 deg C.

Date/Time sample collected: Date/Time sample received: 7/2/2014 7/2/2014 18:35

Collected By:

AW Amy Jo AGS

Date/Time sample analyzed:

7/2/2014

20:10 20:55 Received by: Tech:

Units

Parameter Fecal Coliform Test Result* 1500

CFU/100mL

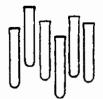
Test Method SM 18 9222D

*Bactariological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

122376

Sample Number:

217846

Sample Location:

Site #7, grab

Sample Comment: Date/Time sample collected: FC rec'd at 10.4 deg C. 7/2/2014 19:15

Collected By: AW

Date/Time sample received: Date/Time sample analyzed: 7/2/2014 7/2/2014 20:10 20:55

Received by:

Army Jo Tech: AGS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

450

CFU/100mL

SM 18 9222D

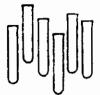
*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

07-Jul-14

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report periatns only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

The total number of pages in this report is 1 (one).



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

12401

PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

122376

Sample Number:

217847

Sample Location:

Duplicate, grab

Sample Comment:

FC rec'd at 14.6 deg C.

Date/Time sample collected:

7/2/2014

Collected By:

AW

Date/Time sample received: Date/Time sample analyzed: 7/2/2014 20:10 Received by:

Ату Јо AGS

7/2/2014 20:55

Tech:

Units

Parameter

Test Result*

18:40

6500 (Est) CFU/100mL **Test Method**

Fecal Coliform

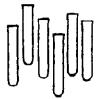
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment: (Est): Represents an estimated count due to overcrowding growth.

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO #

Client Project Name:

Sample Type:

Rondout Creek
Buffered DI Water

Order comment:

Order ID:

122376

Sample Number:

217975

Sample Location:

Blenk

Sample Comment:

Data/Time sample collected:

7/2/2014

20:55

Collected By:

AGS

Date/Time sample received: Date/Time sample analyzed: 7/2/2014 7/2/2014 20:55 20:55

Received by: Tech: Amy Jo AGS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

<1

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

08-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO #

Sample Type: Client Project Name: Surface Water Rondout Creek

Order comment:

Order ID: 122376 **Sample Number:** 217840

Sample Location: Site #1, grab

Date/Time sample collected: 7/2/2014 18:15 Sample Collected By: AW

Date/Time samples received: 7/2/2014 20:10 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 8.3 deg C.

Test Date Test Time Tech** **Test Method** Parameter: Test Result Units 7/8/2014 SW Total Suspended Solids 4 mg/L SM20 2540 D SW 7/3/2014 Solids, Settleable < 0.1 mL/L SM20 2540F 11:45

Order ID: 122376 Sample Number: 217841

Sample Location: Site #2, grab

Date/Time sample collected:7/2/201418:25Sample Collected By:AWDate/Time samples received:7/2/201420:10Sample Received by:Amy Jo

Sample Comment: FC rec'd at 10.4 deg C.

Test Date Test Time Tech** Parameter: Test Result Units **Test Method** SW Total Suspended Solids 3 mg/L SM20 2540 D 7/8/2014 sw Solids, Settleable SM20 2540F 7/3/2014 11:45 < 0.1 mL/L

Order ID: 122376 Sample Number: 217842

Sample Location: Site #3, grab

Date/Time sample collected:7/2/201418:30Sample Collected By:AWDate/Time samples received:7/2/201420:10Sample Received by:Amy Jo

Sample Comment: FC rec'd at 13.3 deg C.

Test Date Test Time Tech** Parameter: **Test Result** Units **Test Method** 7/8/2014 SW Total Suspended Solids mg/L SM20 2540 D 3 Solids, Settleable < 0.1 mL/L SM20 2540F 7/3/2014 11:45 SW

Order ID: 122376 Sample Number: 217843

Sample Location: Site #4, grab

Date/Time sample collected: 7/2/2014 18:40 Sample Collected By: AW

Date/Time samples received: 7/2/2014 20:10 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 13.1 deg C.

Test Date Test Time Tech** **Test Result** Units **Test Method** Parameter: 7/8/2014 SW mg/L SM20 2540 D Total Suspended Solids 6 SW 7/3/2014 11:45 Solids, Settleable < 0.1 mL/L SM20 2540F



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Order ID: 122376 Sample Number: 217844

Sample Location: Site #5, grab

Date/Time sample collected: 7/2/2014 18:45 Sample Collected By: AW

Date/Time samples received: 7/2/2014 20:10 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 12.7 deg C.

Tech** Test Date Test Time Parameter: **Test Result** Units **Test Method** Total Suspended Solids SM20 2540 D 7/8/2014 SW mg/L SW SM20 2540F 7/3/2014 11:45 Solids, Settleable < 0.1 mL/L

Order ID: 122376 Sample Number: 217845

Sample Location: Site #6, grab

Date/Time sample collected: 7/2/2014 18:35 Sample Collected By: AW

Date/Time samples received: 7/2/2014 20:10 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 12.2 deg C.

Parameter: Test Result Units **Test Method** Test Date Test Time Tech** 7/8/2014 SW SM20 2540 D Total Suspended Solids 2 mg/L SW Solids, Settleable < 0.1 mL/L SM20 2540F 7/3/2014 11:45

Order ID: 122376 Sample Number: 217846

Sample Location: Site #7, grab

Date/Time sample collected:7/2/201419:15Sample Collected By:AWDate/Time samples received:7/2/201420:10Sample Received by:Amy Jo

Sample Comment: FC rec'd at 10.4 deg C.

Tech** Parameter: **Test Result** Units **Test Method** Test Date Test Time 7/8/2014 SW Total Suspended Solids SM20 2540 D 3 mg/L Solids, Settleable < 0.1 mL/L SM20 2540F 7/3/2014 11:45 SW

Order ID: 122376 Sample Number: 217847

Sample Location: Duplicate, grab

Date/Time sample collected: 7/2/2014 18:40 Sample Collected By: AW

Date/Time samples received: 7/2/2014 20:10 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 14.6 deg C.

Tech** Test Date Test Time Parameter: **Test Result** Units **Test Method** SM20 2540 D 7/8/2014 SW Total Suspended Solids 5 mg/L SW SM20 2540F 7/3/2014 Solids, Settleable < 0.1 mL/L 11:45



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Kingston NY 12401 PO#	12401 PO #	420 Broadway
		•
Results Comment:		Pasults Commant

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

18-Jul-14

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

Total number of pages in this report, including chain of custody, is 4

SMITH LABOR	RATORY				CH	AIN	OF CUS	STODY		Login R		W	
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lyde Park, NY		Turnaround Tin						Copy results Local Healt		Pmt Me			
Phone: 845-229 Fax: 845-229		** Date report			ues)			Yes A		Receipt			-
ax. 043-225	-0556	Duse report	equesieu.					100		r.coe.p.	1.0.		
		SSTON							Project/F				
failing Address	: 420 BROAD	WAY			Clien	t Email:	aadin@	kingston-ny.	gov	Location:			
	KINGSTON,	NY 12401			Сору	Report	To: _RAL	PH SWENSO	ON PWS Fed	ID No: NY			· ·
B USE ONLY	CI	LIENT: COMPL	ETE THE	SAMI	LE IN	FORM	ATION IN	THE SPAC	E PROVIDED BELOW		LA	B USE OF	VLY
Order ID No:		lentification &	Manife		Check O		Treatment	Date/Time	Analysis	Container &	Iced Y/N	Sample Temp,	Pres.
Sample No:	Sam	ple Point	Matrix	Grab	Comp # hrs	First Draw	Type & Residual	Sampled	Requested	Preservative	I/N	Deg C	Y/N
2178403	SITE #1		sw	Х				7/2/14	SS TSS	1-1LPLAS 1-1/2 L PLAS	4	12/3	N
18411	SITE #2		sw	Х				7/2/14	SS TSS	1-1LPLAS 1-1/2 L PLAS		12.9	
842	SITE #3		sw	Х				7/2/1	SS TSS	1-1LPLAS 1-1/2 L PLAS		11.8	
843	SITE #4		SW	Х				7/3/14	SS TSS	1-1LPLAS 1-1/2 L PLAS		14.9	
844	SITE #5		SW	Х				7/2/14	SS TSS	1-1LPLAS 1-1/2 L PLAS		14.8	
845	SITE #6		SW	Х				7/2/14		1-1LPLAS 1-1/2 L PLAS		17.0/14.4	
9.46	SITE #7		SW	X				7/2/14	SS TSS	1-1LPLAS 1-1/2 L PLAS		13:36	
1847	DUPLICATE		sw	Х				6.40P	SS TSS	1-1LPLAS 1-1/2 L PLAS	V	2019,7	V
								77					
and Dec Olem	Alla. 31	Durasi				Title)	SA. O	DERATA	L Lharaby affirm that the	information above is to	ne and co	mplete to the	e hest of
ny knowledge. I al	so affirm that I am re	sponsible for payment,	unless other	payment	arrangeme	ents are ap	oproved in adv	ance by Smith	I hereby affirm that the Laboratory.	intornation above is u	uc and or	лириск ю и	ic ocst of
ample Relinquished	By Alu	Low	(ee		Receiv	ed By:		04.0		Date:	1-1	Time:	C. 1
ample Relinquished					Receiv	ed at Lab	Ву:	mD/A	1A	Date:	1/2	Time: 8	109
Sample(s) received	met the following re	quirements				Comm							
Thermal Preservati	on: NA Yes No												
Chemical Preservat	ion: NA Yes No		3										
Correct Bottle Type	Yes No_		. :										
Other			*					in of Custody R	A 2/14 Date I	Review: Mgr	X	Daite 7	(1)

	Α Λ
Initials:	.Δ.Δ
muuais.	المعقرة المستقرة

Sampling Team:

1 R Sienson

Weather:

Temperature: ALGA 80

Direction of Flow:

			LOW TIDE	4:09 PM.	
Sampling Location	Time	Field Parameter	Physical Observations	Comm	
SITE#1: MID-ROADOUT CREEK APPROX. 250 YOS UPSTREAM OF WILBUR	LATITUE: 41.906 LONGITUDE: 74.004	DO 8.1 mg/L	Grease NONE	APPROX.15 YDS WESTER	LLY OF FEELEY DRY
AVE OUTFALL	1	temperature 25.9°C.	Floatables NDME	DOCK AT PROPERTY BOUN FEELING AND RECYCLING BU	DARY BETWEEN
	1:487		Odors NONE		
	LAT: 41.9/2	DO 7.9/mg·L	Grease NOVE	TIDE: OUT EXTINGE 50 YDS SOUTHERLY	of ISLAND DOCK
of Block Park	LONG: 73.992	temperature 24.8°C	Floatables NOWE	CAUSEWAY CULVERTS	
	1:577		Odors NONE		
SITE #3: MID- RONDONT CREEK	LAT: 41.914	DO 7.7mg/c	Grease NONE	25 YDS SOUTHERLY	of old steel
APPROX, 150 YOS UPSTREAM OF OLD	LONG: 73.985	temperature 24.8°C	Floatables NONE	RAILER PROTRUDING FI	ean water wear
BRIDGE	2:05 p		Odors NME	ISLAND DOCK BULKHEAD	
SITE #6; MID- ROMOOUT CREEK	LAT: 41.918	DO80 "//	Grease	TIDE: OUT FAITE	E CLEARWATER
UNDER NEW BRIDGE	LONG: 77.981	temperature 24.90	Floatables NOVE	MAINTENANCE SHED	BLE SLIDE DOORS
	2:07p.		Odors NONE		
SITE #4: MID.	LAT:41.919		Glease 100/00	TIDE: OVT 1-451 50 YDS SOUTHERL	STEELHOUSE
APPROX, ZOO YDS	LON 673.979	temperature 24.6C	Floatables NOWE	RESTAURANT CONER	PATIO
NEW BRIDGE	2:10 p		Odors NONE		
RONDONT CREEK		DO 7. Frigh	Grease Nome	TIDE: OUT FAS	GAS LINE
VPSTREAM OF BLOCK	LONG:73 969	temperature 25.7°C	Floatables NONE	CROSSING WARNIN	GN
PARK	2:150		Odors NONE		
SITE # 7: MID - RONDOUT CREEK APPROX	LAT: 7307		Grease Nove	FLOW: ALWAYS EASTER NOT TIDAL. STRAIGH	WASTREAM)-LOCATION FROM WESTERLY
3/4 MILE UPSTREAM OF EDDYVILLE DAM AT	LON 6:	temperature 25.1		END BOAT LAUNCH	
NYSDEC BOAT LAUNCH	Z:40P.		Odors		
	LAT: 41.89C	DO /	Grease		
DVOLI CATE	LONG: 74.01 SITE #4	temperature	Floatables	SITE #4	
	>1157		Odors		



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

1

NY 12401

PO#

Client Project Nama:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

122441

Sample Number:

217954

Sample Location:

Site #1, grab

Sample Comment:

FC rec'd at 7.7 deg C.

Date/Time sample collected:

7/7/2014 13

13:48

Collected By:

r: RS ; Amy Jo

Date/Time sample received: Date/Time sample analyzed: 7/7/2014

16:00

Received by:

SS

Parameter

7/7/2014

17:20

Tech:

Test Method

Fecal Coliform

Test Result* 150

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

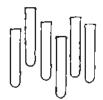
Results Comment:

Reviewed(by: Lab Manager, ELAP Lab ID #10924

09-Jul-14

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

The total number of pages in this report is 1 (one).



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

122441

Sample Number:

217955

Sample Location:

Site #2, grab

Sample Comment:

FC rec'd at 6.6 deg C.

Date/Time sample collected:

Collected By:

7/7/2014 13:57

7/7/2014 16:00

Received by:

Date/Time sample received: Date/Time sample analyzed:

7/7/2014

17:20

Tech:

R\$

SS

Amy Jo

Parameter Fecal Coliform Test Result* 100

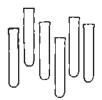
Units CFU/100mL Test Method SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab/Manager, ELAP Lab ID #10924

09-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

122441

Sample Number:

217956

Sample Location:

Site #3, grab

Sample Comment:

FC rec'd at 5.8 deg C.

Date/Time sample collected: Date/Time sample received:

Date/Time sample analyzed:

7/7/2014

7/7/2014

7/7/2014

14:05 16:00

17:20

Collected By:

Received by:

Amy Jo Tech:

SS

RS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

60

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

122441

Sample Number:

217957

Sample Location:

Site #4, grab

Sample Comment:

FC rec'd at 9.6 deg C.

Date/Time sample collected:

7/7/2014

Collected By:

Date/Time sample received:

7/7/2014

14:10 16:00

RS Received by:

Amy Jo

Date/Time sample analyzed:

7/7/2014

17:20

Tech: 58

Parameter

Test Result*

Units

Test Method

Fecal Coliform

100

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Rondout Creek Surface Water

Sample Type:

Order comment:

Order ID:

122441

Sample Number:

217958

Sample Location:

Site #5, grab

Sample Comment:

FC rec'd at 8.1 deg C.

Date/Time sample collected:

7/7/2014

14:15

Collected By:

: RS

Date/Time sample received:

7/7/2014

16:00

Received by:

Amy Jo

Date/Time sample analyzed:

7/7/2014

17:20

Tech: SS

Units

Test Method

Parameter Fecal Coliform Test Result*

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Sample Type:

Order comment:

Order ID:

Rondout Creek

Surface Water

122441

Sample Number:

217959

Sample Location:

Site #6, grab

Sample Comment:

FC rec'd at 5.7 deg C.

Date/Time sample collected: Date/Time sample received:

7/7/2014 7/7/2014 14:07

Collected By:

RS

Date/Time sample analyzed:

7/7/2014

16:00 17:20 Received by: Amy Jo

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

110

CFU/100mL

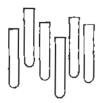
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Maneger, ELAP Lab ID #10924

09-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

122441

Sample Number:

217960

7/7/2014

Sample Location:

Site #7, grab

Sample Comment:

FC rec'd at 13.5 deg C

Date/Time sample collected:

7/7/2014 1

14:40 16:00 17:20 Collected By:

RS

Date/Time sample received: Date/Time sample analyzed: 7/7/2014 16:00

00

Received by: Amy Jo

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

60

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO #

Client Project Name: Sample Type:

ame: Rondout Creek Surface Water

Order comment:

Order ID: 122441

Sample Number: 217961

Sample Location: Duplicate, grab
Sample Comment: FC rec'd at 6 3 deg C.

Date/Time sample collected: 7/7/2014 14:10 Collected By: RS

Date/Time sample received: 7/7/2014 16:00 Received by: Amy Jo

Date/Time sample received:7/7/201416:00Received by:Amy JoDate/Time sample analyzed:7/7/201417:20Tech:SS

 Parameter
 Test Result*
 Units
 Test Method

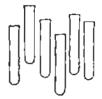
 Fecal Coliform
 110
 CFU/100mL
 SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

122441

Sample Number:

217976

Sample Location:

Blank-QC

Sample Comment:

100 mL buffered rinse water used

Date/Time sample collected:

7/7/2014 17:20 Collected By:

Date/Time sample received:

7/7/2014

Received by:

Date/Time sample analyzed:

17:20 7/7/2014 17:20

Amy Jo Tech: SS

Parameter Fecal Coliform Test Result* < 1

Unite CFU/100mL

Test Method SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Sample Type: Client Project Name: Surface Water Rondout Creek

Order comment:

Order ID: 122441 Sample Number: 217954

Sample Location: Site #1, grab

Date/Time sample collected: 7/7/2014 13:48 Sample Collected By: RS

Date/Time samples received: 7/7/2014 16:00 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 7.7 deg C.

Parameter: **Test Result** Units **Test Method** Test Date Test Time Tech** 7/8/2014 SW Total Suspended Solids 5 mg/L SM20 2540 D Solids, Settleable < 0.1 mL/L SM20 2540F 7/7/2014 16:35 SW

Order ID: 122441 Sample Number: 217955

Sample Location: Site #2, grab

Date/Time sample collected: 7/7/2014 13:57 Sample Collected By: RS

Date/Time samples received: 7/7/2014 16:00 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 6.6 deg C.

Parameter: **Test Result** Units **Test Method** Test Date Test Time Tech** Total Suspended Solids SM20 2540 D 7/8/2014 SW mg/L 6 SW Solids, Settleable < 0.1 SM20 2540F 7/7/2014 16:35 mL/L

Order ID: 122441 Sample Number: 217956

Sample Location: Site #3, grab

Date/Time sample collected: 7/7/2014 14:05 Sample Collected By: RS

Date/Time samples received: 7/7/2014 16:00 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 5.8 deg C.

Test Result Units **Test Method** Test Date Test Time Tech** Parameter: Total Suspended Solids mg/L SM20 2540 D 7/8/2014 SW 6 SW SM20 2540F 7/7/2014 16:35 Solids, Settleable < 0.1 mL/L

Order ID: 122441 Sample Number: 217957

Sample Location: Site #4, grab

Date/Time sample collected: 7/7/2014 14:10 Sample Collected By: RS

Date/Time samples received: 7/7/2014 16:00 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 9.6 deg C.

Test Method Test Date Test Time Tech** Parameter: **Test Result** Units SW 7/8/2014 Total Suspended Solids 4 mg/L SM20 2540 D 7/7/2014 16:35 SW SM20 2540F Solids, Settleable < 0.1 mL/L



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO #

Order ID: 122441 Sample Number: 217958

Sample Location: Site #5, grab

Date/Time sample collected: 7/7/2014 14:15 Sample Collected By: RS

Date/Time samples received: 7/7/2014 16:00 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 8.1 deg C.

Test Date Test Time Tech** Parameter: **Test Result** Units **Test Method** 7/8/2014 SW 5 mg/L SM20 2540 D **Total Suspended Solids** 7/7/2014 16:35 SW Solids, Settleable < 0.1 mL/L SM20 2540F

Order ID: 122441 **Sample Number:** 217959

Sample Location: Site #6, grab

Date/Time sample collected: 7/7/2014 14:07 Sample Collected By: RS

Date/Time samples received: 7/7/2014 16:00 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 5.7 deg C.

Tech** **Test Result** Units **Test Method** Test Date Test Time Parameter: SW 7/8/2014 mg/L SM20 2540 D Total Suspended Solids 4 SW Solids, Settleable < 0.1 mL/L SM20 2540F 7/7/2014 16:35

Order ID: 122441 Sample Number: 217960

Sample Location: Site #7, grab

Date/Time sample collected: 7/7/2014 14:40 Sample Collected By: RS

Date/Time samples received: 7/7/2014 16:00 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 13.5 deg C.

Tech** Test Date Test Time Parameter: **Test Result** Units **Test Method** SW SM20 2540 D 7/8/2014 Total Suspended Solids 4 mg/L SW SM20 2540F 7/7/2014 16:35 Solids, Settleable < 0.1 mL/L

Order ID: 122441 Sample Number: 217961

Sample Location: Duplicate, grab

Date/Time sample collected: 7/7/2014 14:10 Sample Collected By: RS

Date/Time samples received: 7/7/2014 16:00 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 6.3 deg C.

Test Date Test Time Tech** Units **Test Method** Parameter: **Test Result** SM20 2540 D 7/8/2014 SW Total Suspended Solids 5 mg/L 7/7/2014 SW 16:35 < 0.1 SM20 2540F Solids, Settleable mL/L



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: Cit	y of Kingston	Engineers (Office
-------------	---------------	-------------	--------

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

21-Jul-14

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

Total number of pages in this report, including chain of custody, is ______

SMITH LABO				CH	AIN	OF CUS	STODY		Login R		tw.	
4 Scenic Drive Hyde Park, NY Phone: 845-22 Fax: 845-22	12538-1313 Turnaround Tir 9-6536 RUSH (Ru	sh surchar	ge app				Copy results Local Healt Yes	h Dept.	Amt Pa Pmt Me Receipt	id: thod :		
	CITY OF KINGSTON		,					Project/F				
Mailing Addres	SS: 420 BROADWAY							DN PWS Fed				
AB USE ONLY	CLIENT: COMPL	ETE THE	SAME	PLE IN	FORM.	ATION IN	THE SPAC	E PROVIDED BELOW		LA	B USE OF	VLY
Order ID No: 122441	Sample Identification & Sample Point	Matrix	(C)		First	Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
Sample No: 217954916	SITE #1	sw	x	# hrs	Draw	Residual	7.7.14	SS TSS	1-1LPLAS 1-1/2 L PLAS	4	6.0/5.3	Y
955	SITE #2	sw	X				\$\$1:57P	cc	1-1LPLAS 1-1/2 L PLAS	1	3149	
956	SITE #3	SW	Х				2:05P	SS TSS	I-ILPLAS I-I/2 L PLAS		4.9 6,4	
957	SITE #4	SW	Х				2:108	SS TSS	1-1LPLAS 1-1/2 L PLAS		0.4 14.5	
958	SITE #5	SW	X				2:158	SS TSS	1-1LPLAS 1-1/2 L PLAS		51/41	
959	SITE #6	SW	X				2:079	SS TSS	1-1LPLAS 1-1/2 L PLAS		4.43.8	
960	SITE #7	SW	X				2:400	SS TSS	1-1LPLAS 1-1/2 L PLAS		18.6/5	
Ja6, d	DUPLICATE	SW	X				2:108	SS TSS	I-ILPLAS I-1/2 L PLAS	1	3.84.0	1
											1.	
my knowledge. I a	also affirm that I am responsible for payment, AZAV ADIN ed By:	unless other	payment	Receiv	ents are a	pproved in adv		I hereby affirm that the Laboratory.	Date:		Time:	
	d met the following requirements				Comm							
Thermal Preservat	tion: NA Yes No				Conmi	rotto.						
Chemical Preserva	ation: NA Yes No											
Correct Bottle Typ	yes No	<u> </u>									_	1
Other			**		Canada T	aharatarı Cha	in of Custody R	ev 4 2/14 Data I	Review Mor	7	Date 7	110

Attach nt 1 - Sampling Event Summary Sheet

ASAMPLING EVENT #14

AT

Date: 7.1514

Page ___ of ___

Sampling Team:

Initials:

Weather:

A ADIN / R. SWENSON / A. WINCHELL

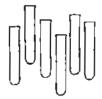
Temperature: Low 80

Direction of Flow:

at Ethery

LOW TIDE 1:30PM

Sampling Location	Time	Field Parameter	Physical Observations		nents
SITE#1: MID-ROADOUT CREEK APPROX. 250 YOS UPSTREAM OF WILBUR AVE, OUTFALL	LATITIVE: 41.907 LONGITUE: 74004	temperature 26.5°C	Grease NOW: Floatables NOW: Odors NOW:	APPROX. 15 YDS WESTE DOCK AT PROPERTY BOY FEEWEY AND RECYCLING B	DUN OF FEELEY DRY
SITE #2: MID-ROWERT CREEK UPSTREAM OF BLOCK PARK	LAT: 41912 LONG: 73,992	temperature 25.7°C	Grease None- Floatables None- Odors None-	TIDE: OVI EASTED 50 YDS SOUTHERLY CAUSEWAY CULVERT	OF ISLAND DOCK
SITE #3: MID- RONDOUT CREEK APPROX, 150 YOS UPSTREAM OF OLD BRIDGE	LAT: 41,915 LONG: 73,985. 11-34A	temperature 25.5°C.	Grease NOVE Floatables NOVE Odors NOVE	TIDE: OUT TASTERLY 25 YDS SOUTHERLY BOILER PROTRUDING F ISLAND DOCK BULKHEAD	OF OLD STEEL NEAR
SITE #6; MID- RONDOUT CREEK UNDER NEW BRIDGE	LAT: 41.918 LONG: 73.981 - 11:40A	DO 7.3/m/L temperature 25.1°C	Grease NONE Floatables NONE Odors NONE	TIDE: O'T EASTE SO YDS SOUTHERN MAINTENANCE SHED	HE CLEAR WATER 18-E SLIDE DOORS
RONDOUT CREEK APPROX. ZOO YDS DOWNSTREAM OF NEW BRIDGE	LAT:2)1.919 LONG: 73 974	DO 7 2 - 19/L- temperature 25,0 °C	Grease NOVE Floatables NOVE Odors NOVE	TIDE: OT EASTE 50 YDS SOUTHERL RESTAUMANT CONSE	F STEELHOUSE PATIC
SITE #5: MID- LONDONT CREEK PARK PARK	LAT: 41922 LONG: 73,969 11521311	DO 7. 4 ng/L temperature 29.8°C	Floatables NONE Odors NONE	TIDE: AT EAST 50 YOS SOUTHERLY CROSSING WARNIN	GAS LINE
CONNIVIT ADDECK NODDON	LAT: 41.890 LONE: 74.01 12:30 P~	DO (6.1 19/4 temperature 35.50	Grease // C/OC	FLOW: ALWAYS EASTER NOT TIDAL. STRAIGH END BOAT LAVNICH	OWN STREAM) - 40 CATION T FROM WESTERLY
DVOLI CATE	LONGI STIF 45	DO temperature	Grease Floatables Odors	SITE #5	



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek Surface Water

Sample Type:

Order comment:

Order ID:

122820

Sample Number:

218783

Sample Location:

Site #1, grab

Sample Comment:

FC rec'd at 8.1 deg C.

Date/Time sample collected:

7/18/2014

11;13

Collected By:

RS/AA

Date/Time sample received:

7/18/2014

14:00

Received by:

Amy Jo \$S

Date/Time sample analyzed:

7/18/2014 16:50

Tech:

Test Method

Parameter Fecal Coliform Test Result*

Units

SM 18 9222D

10

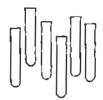
CFU/100mL

*Bacteriological test results are expressed as Colony Forming Units

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

22-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY

PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

122820

Sample Number:

218784

Sample Location:

Site #2, grab

Sample Comment:

FC rec'd at 9.8 deg C.

Date/Time sample collected:

12401

11:28

Collected By:

RS/AA

Date/Time sample received:

7/18/2014

Received by:

Amy Jo

Date/Time sample analyzed:

7/18/2014 7/18/2014 14:00 16:50

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

20

CFU/100mL

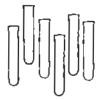
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

22-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8538

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

122820

Sample Number:

218785

Sample Location:

Site #3, grab

Sample Comment:

FC rec'd at 8.2 deg C.

Date/Time sample collected:

11:34

Collected By:

RS/AA

Date/Time sample received:

7/18/2014

Received by:

Amy Jo

Date/Time sample analyzed:

7/18/2014 7/18/2014 14:00 16:50

Tech:

SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

30

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

22-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

122820

Sample Number:

218786

Sample Location:

Site #4, grab

Sample Comment:

FC rec'd at 9.8 deg C.

Date/Time sample collected:

7/18/2014 11:44 Collected By:

RS/AA

Date/Time sample received:

7/18/2014

14:00

Received by:

Amy Jo

Date/Time sample analyzed:

7/18/2014

16:50

Tech: SS

Test Method

Parameter Fecal Coliform Test Result* 50

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

22-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

122820

Order ID:

Sample Number: Sample Location: 218787

Site #5, grab

Sample Comment:

FC rec'd at 11.7 deg C.

Date/Time sample collected:

11:52

Collected By:

R\$/AA

Date/Time sample received:

7/18/2014

Received by:

Amy Jo

Date/Time eample analyzed:

7/18/2014 7/18/2014 14:00 16:50

Tech: SS

Test Method

Parameter Fecal Coliform Test Result* 50

Units CFU/100mL

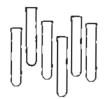
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

22-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

122820

Sample Number:

218788

Sample Location:

Site #6, grab

Sample Comment:

FC rec'd at 9.8 deg C.

Date/Time sample collected:

7/18/2014

11:40

Collected By:

RS/AA

Date/Time sample received:

7/18/2014 14:00

Received by:

Amy Jo

\$\$

Date/Time sample analyzed:

7/18/2014 16:50

Tech:

Parameter

Test Result*

Units

Test Method

Fecal Coliform

60

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

22-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6538

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

NY Kingston 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

122820

Sample Number:

218789

Sample Location:

Site #7, grab

Sample Comment:

FC rec'd at 19.0 deg C

Date/Time sample collected:

12:30

Collected By:

RS/AA

Date/Time sample received:

7/18/2014 14:00

16:50

Received by:

Amy Jo

Data/Time sample analyzed:

7/18/2014 7/18/2014

Tech: SS

Parameter Fecal Coliform Test Result* < 10

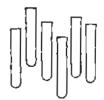
Units CFU/100mL Test Method SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

22-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston NY 12401

Client Project Name:

Rondout Creek Surface Water Sample Type:

Order comment:

122820 Order ID:

Sample Number:

218790

Sample Location:

Duplicate, grab

Sample Comment:

FC rec'd at 3.4 deg C.

Date/Time sample collected:

7/18/2014 11:52

14:00 16:50 Collected By:

RS/AA Received by: Amy Jo

Date/Time sample received: Date/Time sample analyzed: 7/18/2014 7/18/2014

PO#

Tech: SS

Parameter

Test Result*

Unita

Test Method

Fecal Coliform

90

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lap Manager, ELAP Lab ID #10924

22-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Order comment:

Order ID:

122820

Sample Number:

218833

Sample Location:

Blank QC

Sample Comment:

100 mL of buffered rinse water used

Date/Time sample collected:

16:50

Collected By:

Date/Time sample received:

7/18/2014

Date/Time sample analyzed:

7/18/2014

7/18/2014

16:50 16:50 Received by: Amy Jo

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 1

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Maŋager, ELAP Lab ID #10924 22-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

PO# NY 12401 Kingston

Sample Type: Client Project Name: Surface Water Rondout Creek

Order comment:

Order ID: 122820 Sample Number: 218783

Sample Location:

Site #1, grab

Date/Time sample collected:

Date/Time sample collected:

7/18/2014 11:13 7/18/2014 14:00

Sample Collected By:

RS/AA

Date/Time samples received:

Amy Jo Sample Received by:

Sample Comment: FC rec'd at 8.1 deg C.

Parameter: Test Result Units **Test Method** Test Date Test Time Tech** Total Suspended Solids 2 mg/L SM20 2540 D 7/23/2014 SW SM20 2540F 7/18/2014 15:20 SW Solids, Settleable < 0.1 mL/L

Order ID: 122820 Sample Number: 218784

Sample Location:

Site #2, grab

7/18/2014 11:28 Sample Collected By: 7/18/2014 14:00

RS/AA

Date/Time samples received:

Sample Received by: Amy Jo

Sample Comment: FC rec'd at 9.8 deg C.

Test Method Test Date Test Time Tech** Parameter: Test Result Units SW 7/23/2014 Total Suspended Solids 3 mg/L SM20 2540 D Solids, Settleable < 0.1 mL/L SM20 2540F 7/18/2014 15:20 SW

Order ID: 122820 Sample Number: 218785

Sample Location:

Site #3, grab

7/18/2014 11:34 Sample Collected By:

RS/AA

RS/AA

Amy Jo

Date/Time sample collected: Date/Time samples received:

Date/Time samples received:

7/18/2014 14:00

Amy Jo Sample Received by:

Sample Comment: FC rec'd at 8.2 deg C.

Tech** Parameter: Test Result Units **Test Method** Test Date Test Time SM20 2540 D 7/23/2014 SW Total Suspended Solids 2 mg/L Solids, Settleable < 0.1 mL/L SM20 2540F 7/18/2014 15:20 SW

Order iD: 122820 Sample Number: 218786

Sample Location:

Site #4, grab

7/18/2014 11:44 Date/Time sample collected:

Sample Collected By: 7/18/2014 14:00 Sample Received by:

Sample Comment: FC rec'd at 9.8 deg C.

Test Date Test Time Tech** Parameter: **Test Result** Units **Test Method** SW Total Suspended Solids 6 mg/L SM20 2540 D 7/23/2014 Solids, Settleable < 0.1 mL/L SM20 2540F 7/18/2014 15:20 SW



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Order ID: 122820 Sample Number: 218787

Sample Location: Site #5, grab

Date/Time sample collected: 7/18/2014 11:52 Sample Collected By: RS/AA

Date/Time samples received: 7/18/2014 14:00 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 11.7 deg C.

Units Tech** Parameter: Test Result **Test Method** Test Date Test Time Total Suspended Solids SM20 2540 D 7/23/2014 SW 2 mg/L Solids, Settleable < 0.1 mL/L SM20 2540F 7/18/2014 15:20 SW

Order ID: 122820 Sample Number: 218788

Sample Location: Site #6, grab

Date/Time sample collected: 7/18/2014 11:40 Sample Collected By: RS/AA

Date/Time samples received: 7/18/2014 14:00 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 9.8 deg C.

Test Result Tech** Parameter: Units **Test Method Test Date Test Time** Total Suspended Solids 7/23/2014 3 mg/L SM20 2540 D SW Solids, Settleable 7/18/2014 SW < 0.1 mL/L SM20 2540F 15:20

Order ID: 122820 Sample Number: 218789

Sample Location: Site #7, grab

Date/Time sample collected: 7/18/2014 12:30 Sample Collected By: RS/AA

Date/Time samples received: 7/18/2014 14:00 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 19.0 deg C.

Parameter: **Test Result** Units **Test Method** Test Date Test Time Tech** Total Suspended Solids 4 mg/L SM20 2540 D 7/23/2014 SW Solids, Settleable SM20 2540F 7/18/2014 sw < 0.1 mL/L 15:20

Order ID: 122820 Sample Number: 218790

Sample Location: Duplicate, grab

Date/Time sample collected:7/18/201411:52Sample Collected By:RS/AADate/Time samples received:7/18/201414:00Sample Received by:Amy Jo

Sample Comment: FC rec'd at 3.4 deg C.

Parameter: **Test Result** Units **Test Method** Test Date Test Time Tech** Total Suspended Solids SM20 2540 D 7/23/2014 SW 4 mg/L Solids, Settleable < 0.1 mL/L SM20 2540F 7/18/2014 15:20 SW



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

25-Jul-14

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

Total number of pages in this report, including chain of custody, is ______

SMITH LABO				CH	AIN	OF CUS	STODY		Login R		des .	
4 Scenic Drive Hyde Park, NY Phone: 845-22	12538-1313 Turnaround Tin 9-6536 RUSH (Rus	h surchar	ge app				Copy result	h Dept.	Amt Pa Pmt Me	id: thod :		
Fax: 845-22	9-6538 ** Date report	requested:					Yes 1	No [V]	Receipt	No:		
	CITY OF KINGSTON							Project/Fac				
	KINGSTON, NY 12401			Сору	Report	To: _RAL	PH SWENSO	ON PWS Fed II	D No: NY			
LAB USE ONLY	CLIENT: COMPL	ETE THE	SAMI	LE IN	FORM	ATION IN	THE SPAC	E PROVIDED BELOW		LA	B USE OF	VLY
Order ID No:	Sample Identification & Sample Point	Matrix	((C)	Check O	ne) First	Treatment Type &	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp,	Pres. at Lab
Sample No:	·		Grad	# hrs	Draw	Residual	7.18.14				Deg C	Y/N
218783AB	SITE #1	sw	X				11:134	SS TSS	1-1LPLAS 1-1/2 L PLAS	1	16/9/2	N
1 784 1	SITE #2	sw	Х				11:28A	SS TSS	1-1LPLAS 1-1/2 L PLAS		9.1/3.1	
785	SITE #3	SW	X				11:34A	SS TSS	1-1LPLAS 1-1/2 L PLAS		16.4/9.4	
786	SITE #4	SW	X				11:44A	SS TSS	1-ILPLAS 1-1/2 L PLAS	10	20.79.3	
787	SITE #5	sw	Х				11:52A.	SS TSS	1-1LPLAS 1-1/2 L PLAS		20./16	
788	SITE #6	sw	Х				11:40A	SS TSS	1-1LPLAS 1-1/2 L PLAS	1	211/20	
789	SITE #7	sw	Х				12:30P	SS TSS	1-1LPLAS 1-1/2 L PLAS		206/18.4	
1790-	DUPLICATE	sw	Х				11:52 A	SS TSS	I-ILPLAS I-I/2 L PLAS	1	20,4	
									,			
Sampled By: (Nam	RALPH SWENSON / ALAN AD uso affirm that I am responsible for payment,	iN unless other i	navment	arrangeme	Title) EN	GIASER /	TECH .	I hereby affirm that the in	formation above is tr	ue and co	mplete to th	e best of
	14:01			Receiv	ed By:				Date:	,	Time:	
Sample Relinquishe				Receiv	ed at Lab	Ву:	Spo		Date: 7/18	14	Time:	100
Sample(s) received	d met the following requirements				Comm	ents:						
Thermal Preservat	ion: NA Yes No											
Chemical Preserva	ation: NA Yes No											
Correct Bottle Typ	ve (Yes) No											
Other					Smith La	aboratory Cha	in of Custody R	ev. 4, 2/14 Data Re	view: Mgr	2	Date	24

Login Review:

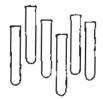
nt 1 - Sampling Event Summary Sheet

Date: 7-23-14 Initials: Page ___ of ___ WINCHELL / J. RODZEWSKET Sampling Team: Weather: Temperature:

IN WESTERLY Direction of Flow:

Sampling Location	Time	Field Parameter	Physical Observations	Comments		
SITE #1: MID-RONDOUT CREEK APPROX. 250 YOS	LATITUDE: 41,907	DO 6.9 mg/L.	Grease NOME	TIDE: IN CONSTERLY.		
DOSTREAM OF WILBUR	LONGITUDE: 74 CE 4	temperature 27.1°C	Floatables NONE	APPROX.15 YDS WESTERLY OF FEELEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN		
	10:05 A		Odors NONE	FERNEY AND RECYCLING BUSINESS		
SITE # Z: MID-ROWOUT CREEK - UPSTREAM	LAT: 91.9/2	DO 77.29/L	Grease AMAE	TIDE: IN MESTELLY 50 YDS SOUTHERLY OF ISLAND DOCK		
OF BLOCK PARK	LONG: 73 942	temperature 26.2°C	Floatables NONE	CAUSEWAY CULVERTS		
	10:15 A.		Odors NONE			
SITE #3: MID- RONDAT CREEK	LAT: 41,415	DO 7.9 mg/L	Grease NUME	TIDE: IN WESTER		
APPROX. 150 YOS UPSTREAM OF OLD	LONG: 73.985	temperature 26.2°C	Floatables NONE	25 YDS SOUTHER! FOLD STEEL BOILER PROTRUDING OM WATER MEAR		
3R1066	10:22A.		Odors NENE	ISCAND DOCK BULKHE		
O & 445- 1- 4/2 C C 10	LAT: 41.918	DO 7.9.49/L	Grease Nont	TIDE: IN INTESTER		
ROMDONT CREEK UNDER NEW BRIDGE	LONG: 73.481	temperature 26.5°C	Floatables Nove	50 YDS SOUTHERL = CLEARWATER MAINTENANCE SHED 3LE SLIDE DOORS		
	- 10:35A		Odors NONE			
	LAT: 41,919	DO 8.1 mg/4	Grease NONE	TIDE: IN WESTER		
PPROX. ZOO YDS	LONG: 73979	temperature 26.4°C	Floatables MINIMAL	SO YDS SOUTHERD STEELHOUSE RESTAURANT COURS PATIO		
NEW BRIDGE	7:38 A		Odors None	VEGETATIVE THER		
LENDONT CREEK	LAT: 41.922	DO 6.8 mg/L	Grease NONE	TIDE: IN WESTE - /WATER IS		
PSTREAM OF BLOCK	LONG: 73.969	temperature 26.9 C	Floatables SomE	SO YDS SOUTHERLY GAS LINE MORE DISCLE CROSSING WARNING GN		
ARK	10:46A		Odors NEWE	MOTZE VEGETATIVE INTITIER + DEBRIS		
DANIAIT COTECK ADDONAL	LAT: 48.41.89	DO 6.0 mg/L	Grane NHME	FLOW: ALWAYS EASTERLY (DOWN STREAM) - LOCATION		
14 MILE UPSTREAM OF LOOVVILLE DAM AT	LONE: 73.01	temperature 26.4°C	414 6	NOTTIDAL. STRAIGHT OUT FROM WESTERLY END BOAT LAVNCH		
JYSDEC BOAT LAUNCH	11.27A		Odors NEME			
	LAT:	DO	Grease			
DVPLI CATE	LONG! SITE #6	temperature	Floatables	SITE#6		

Odors



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Rondout Creek Client Project Name:

Surface Water Sample Type:

Order comment:

122910 Order ID:

218963 Sample Number:

Sample Location: Site #1, grab

FC rec'd at 8.9 deg C. Sample Comment:

7/23/2014 Collected By: Date/Time sample collected: 10:05 7/23/2014 12:35 Received by: Date/Time sample received: Amy Jo

7/23/2014 16:20 Date/Time eample analyzed: Tech: SS

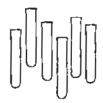
Parameter Test Result* Units **Test Method** Fecal Coliform 60 CFU/100mL SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Lab Manager, ELAP Lab ID #10924 Reviewed by

25-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6538

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

12401 NY

PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

122910

Sample Number:

Sample Location:

218964

Site #2, grab

Sample Comment:

FC rec'd at 7.6 deg C. 7/23/2014

Date/Time sample collected:

10:15

Collected By:

AA

Date/Time sample received: Date/Time sample analyzed: 7/23/2014 7/23/2014 12:35 16:20

Amy Jo Received by:

Tech: SS

Paremeter

Test Result*

Units

Test Method

Fecal Coliform

30

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

25-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Altn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Sample Type:

Order comment:

Order ID:

Rondout Creek

Surface Water

122910

Sample Number:

Sample Location:

218965 Site #3, grab

Sample Comment:

FC rec'd at 7.3 deg C.

Date/Time sample collected:

7/23/2014

10:22

Collected By:

AA Received by: Army Jo

Data/Time sample received: Date/Time sample analyzed: 7/23/2014 7/23/2014 12:35 15:20

Tech: SS

Parameter

Test Result*

Unita

Test Method

Fecal Coliform

40

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

25-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek Surface Water Sample Type:

Order comment:

Order ID:

122910

Sample Number: Sample Location: 218966 Site #4, grab

Sample Comment:

FC rec'd at 9.9 deg C.

Date/Time sample collected: Date/Time sample received:

Date/Time sample analyzed:

7/23/2014

10:38

Collected By:

7/23/2014 7/23/2014

12:35 16:20 Received by: Amy Jo

Tech: SS

Parameter Fecal Coliform Test Result*

Units CFU/100mL **Test Method**

30

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

25-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

12401 NY

PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

122910

Sample Number: Sample Location: 218967 Site #5, grab

Sample Comment:

FC rec'd at 14.1 deg C.

Date/Time sample collected: Date/Time sample received:

7/23/2014 10:46 12:35 Collected By:

Received by: Amy Jo

AA

Date/Time sample analyzed:

7/23/2014 7/23/2014 16:20

Tech: SS

Test Method

Parameter Fecal Coliform Test Regult* 70

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

25-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston NY 12401

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

122910

Sample Number:

218968

Sample Location:

Site #6, grab

Sample Comment:

FC rec'd at 6.8 deg C.

Date/Time sample collected:

7/23/2014

Collected By:

Date/Time sample received: Date/Time sample analyzed: 7/23/2014 12:35

Amy Jo Received by:

PO#

7/23/2014 16:20 Tech: SS

Parameter

Unite

Test Method

Fecal Coliform

Test Result* 50

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

25-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

122910

Sample Number: Sample Location: 218969

Sample Comment:

Site #7, grab FC rec'd at 15.7 deg C.

Date/Time sample collected:

7/23/2014

11:27

Collected By:

AA Amv Jo

Date/Time sample received: Date/Time sample analyzed: 7/23/2014 7/23/2014

12:35

Received by: Amy Jo

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 10

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

25-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

12401 Kingston

PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

122910

Sample Number:

218970

Sample Location: Sample Comment:

Duplicate, Site #8, grab FC rec'd at 9.9 deg C.

Date/Time sample collected:

7/23/2014 10:35 7/23/2014

Collected By:

Received by: Amy Jo

Unite

Date/Time sample received: Date/Time sample analyzed:

7/23/2014

12:35 16:20

Tech: SS

Parameter Fecal Coliform Test Result* 40

CFU/100mL

Test Method

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

25-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

12401 NY

PO#

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

122910

Sample Number:

219065

Sample Location:

Blank QC

Sample Comment:

100 mL of buffered rinse water used

Date/Time sample collected:

7/23/2014 16:20 Collected By:

Date/Time sample received:

7/23/2014

Received by:

Date/Time sample analyzed:

16:20 7/23/2014 16:20

Amy Jo Tech:

\$S

Parameter

Test Result*

Units

Test Method SM 18 9222D

Fecal Coliform

< 1

CFU/100mL

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

25-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Sample Type: Client Project Name: Surface Water Rondout Creek

Order comment:

Order ID: 122910 Sample Number: 218963

Sample Location:

Site #1, grab

Date/Time sample collected:

7/23/2014 10:05

Sample Collected By:

Alan Adin

Date/Time samples received:

7/23/2014 12:35

Sample Received by:

Amy Jo

Sample Comment:

FC rec'd at 8.9 deg C.

Test Result Units Parameter: Total Suspended Solids mg/L

Test Method SM20 2540 D

Test Date Test Time 7/23/2014

Tech** SW

Solids, Settleable

< 0.1 mL/L SM20 2540F

7/23/2014

SW

14:00

14:00

14:00

Order ID: 122910 Sample Number: 218964

Sample Location:

Site #2, grab

Sample Collected By:

Alan Adin

Date/Time sample collected: Date/Time samples received: 7/23/2014 10:15 7/23/2014 12:35

Sample Received by:

Amy Jo

Sample Comment:

FC rec'd at 7.6 deg C.

Test Result Parameter: Total Suspended Solids

Units

218965

Test Method

Test Date Test Time

Tech**

Solids, Settleable

2 mg/L < 0.1 mL/L

SM20 2540 D SM20 2540F

7/23/2014 7/23/2014 SW SW

Order ID: 122910 Sample Number: Site #3, grab

Sample Location: Date/Time sample collected:

7/23/2014 10:22 7/23/2014 12:35 Sample Collected By:

Alan Adin

Test Date Test Time

Date/Time samples received:

Sample Received by: Amy Jo

Sample Comment:

FC rec'd at 7.3 deg C.

Parameter: Total Suspended Solids

Test Result Units 4 mg/L < 0.1 mL/L

Test Method SM20 2540 D SM20 2540F

7/23/2014 7/23/2014 Tech** SW SW

Solids, Settleable 122910 Order ID:

Sample Number: 218966

Sample Location:

Site #4, grab

Date/Time sample collected: Date/Time samples received: 7/23/2014 10:38 7/23/2014 12:35

Sample Collected By: Sample Received by:

Alan Adin Amy Jo

Sample Comment:

FC rec'd at 9.9 deg C.

Test Result Units

Test Method SM20 2540 D Test Date Test Time

Tech**

Parameter: **Total Suspended Solids** Solids, Settleable

mg/L < 0.1 mL/L

SM20 2540F

7/23/2014 7/23/2014

SW 14:00 SW



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

122910 Order ID: Sample Number: 218967 Sample Location: Site #5, grab 7/23/2014 10:46 Date/Time sample collected: Sample Collected By: Alan Adin Date/Time samples received: 7/23/2014 12:35 Sample Received by: Amy Jo Sample Comment: FC rec'd at 14.1 deg C. Parameter: Test Result Unite **Test Method** Test Date Test Time Tech** SM20 2540 D 7/23/2014 SW Total Suspended Solids mg/L Solids, Settleable < 0.1 mU/L SM20 2540F 7/23/2014 14:00 SW Order ID: 122910 218968 Sample Number: Site #6, grab Sample Location: 7/23/2014 10:35 Alan Adin Date/Time sample collected: Sample Collected By: Date/Time samples received: 7/23/2014 12:35 Sample Received by: Amy Jo Sample Comment: FC rec'd at 6.8 deg C. Parameter: Test Result Units **Test Method** Test Date Test Time Tech** Total Suspended Solids 3 mg/L SM20 2540 D 7/23/2014 SW Solids, Settleable SM20 2540F 7/23/2014 14:00 SW < 0.1 mL/L

Order ID: 122910 Sample Number: 218969

Sample Location: Site #7, grab Date/Time sample collected: 7/23/2014 11:27 Sample Collected By: Alan Adin

Date/Time samples received: 7/23/2014 12:35 Sample Received by: Amy Jo FC rec'd at 15.7 deg C.

Sample Comment:

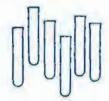
Parameter: Test Result Units **Test Method** Test Date Test Time Tech** Total Suspended Solids 7/23/2014 < 1 mg/L SM20 2540 D SW Solids, Settleable SM20 2540F 7/23/2014 < 0.1 mL/L 14:00 SW

Order ID: 122910 Sample Number: 218970 Sample Location: Duplicate, Site #6, grab

Date/Time sample collected: 7/23/2014 10:35 Sample Collected By: Alan Adin Date/Time samples received: 7/23/2014 12:35 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 9.9 deg C.

Test Date Test Time Parameter: Test Result Units **Test Method** Tech** **Total Suspended Solids** mg/L SM20 2540 D 7/23/2014 SW Solids, Settleable < 0.1 mL/L SM20 2540F 7/23/2014 14:00 sw



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6538

Client:	City of Kingston Engine Attn: Alan Adin 420 Broadway	ers Office	
	Kingston	NY 12401	PO#
Results	Comment:		
	Win		

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

Total number of pages in this report, including chain of custody, is __

SMITHIADO	PATORY				CH	AIN	OF CUS	STODY		Login I	teview:	KL		
SMITH LABORATORY 4 Scenic Drive				-		JI			Amt Du	ie:				
Hyde Park, NY		Turnaround Time	e: Stand	ard 🗸	1			Copy result	ts to	Amt Pa	id:			
Phone: 845-22		RUSH (Rus								Pmt Me				
Fax: 845-22		** Date report re			Local Health Dept. Yes No No						Receipt No:			
Tax. 043-22	.,-0550	Diate reponit	очисовой.											
	CITY OF KINGS as: 420 BROADW				Clien	t Email	aadin@	kingston-ny.	Project/Fac .gov Lc ON PWS Fed I	cation:				
LAB USE ONLY				SAMI			Contract of		E PROVIDED BELOW			B USE O	0.3	
Order ID No:	l CLI	EIII. COM EE	1						1110 122 2220 11					
122910	Sample Iden		1		(Check One)		Treatient I	Date/Time	Analysis	Container &	Iced Y/N	Sample Temp,	Pres.	
Sample No:	Sample	e Point	Matrix	Grab	Comp # hrs	First Draw	Type & Residual	7 23 14	Requested	Prescrvative		Deg C	Y/N	
21396346	SITE #1		sw	Х				10:05A	SS TSS	1-1LPLAS 1-1/2 L PLAS	y	12.4/9.2	N	
1964 1	SITE #2		sw	X				10.15 A	SS TSS	1-1LPLAS 1-1/2 L PLAS	i	89/87	1	
965	SITE #3		sw	Х				10-221	SS TSS	I-ILPLAS I-I/2 L PLAS		79/54		
964	SITE #4		sw	X				10:38A	SS TSS	I-ILPLAS I-1/2 L PLAS		9.4/8.0		
967	SITE #5		sw	Х				10:460	SS TSS	I-ILPLAS I-1/2 L PLAS		14.3/9 6		
968	SITE #6		sw	Х				10:35A	SS TSS	I-ILPLAS I-1/2 L PLAS		-6/8.2		
949	SITE #7		sw	Х				11.270	SS TSS	1-1LPLAS 1-1/2 L PLAS		19.6/00		
=970 L	DUPLICATE		sw	х				10:35A	SS TSS	1-1LPLAS 1-1/2 L PLAS	1	119/119	, 1	
												7		
my knowledge. I a Sample Relinquishe Sample Relinquishe	dso affirm that I am respond By: ALAN I	onsible for payment, u			Receive	ents are ap	proved in adv	PARAMETER DIA	I hereby affirm that the in	formation above is tr Date:	11.	Time:	e best of	
	ion: NA Yes No	nemans				Comm	ents:							
Chemical Preserva	tion: NA Yes No													
Correct Bottle Typ	e Yes No												. ,	
Other											12	8	15	
						Smith Li	boratory Chai	in of Custody Re	ev. 4, 2/14 Data Rev	riew: Mgr	1	Date &	()	

WET WEATHER

SAMPLING EVENT # 16

Date: 7/87/14 Page

nt 1 - Sampling Event Summary Sheet

Sampling Team:

Initials:

Weather:

TERPENIAL DCHEI

Direction of Flow:

Sampling Location	HIGH TIDE &	Field Parameter	Physical Observations	Comments
SITE #1: MID-RODOUT CREEK APPROX. 250 YOS UPSTREAM OF WILBUR AVE, OUTFALL	LATITIOE: 41906 LONGITUDE: 74.004	temperature 38.60	Grease NONE	TIDE: INCOMING APPROX.IS YDS WESTERLY OF FLENEY DR DOCK AT PROPERTY BOUNDARY BETWEEN FEELEY AND RECYCLING BUSINESS
SITE #2: MID-ROWGUT CREEK UPSTREAM OF BLOCK PARK	LAT: 41.912 LONG: 74.992	DO 7-3 temperature 27.7°	Grease None Floatables None Odors None	TIDE: TOPING 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVERTS
SITE #3: MID- RONDOUT CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.914 LONG: 73,984 1'36P	DO 7.4 temperature 27.4°C	Grease NONE	TIDE: IL COMING. 25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEAR ISLAND DOCK BULKHEAD
SITE #6; MID- ROMDONT CREEK UNDER NEW BRIDGE	LAT: 41.918 LONG: 73.981 - 1:41 P	temperature 36.5°C	Grease NONE	TIDE: INCOLU 50 YDS SOUTHER & CLEARWATER MAINTENANCE SHE 845 SLIDE DOORS
SITE #4; MID- RONDOUT CIZEEK. APPROX, ZOO YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.919 LONG: 73.979	temperature 26.4°C	Glease MONE	TIDE: TILCOM 50 YDS SOUTHER FSTEELHOUSE RESTAURANT CON PATIO
SITE #5: MID-	LAT: 4.931 LONG: 73.965	temperature 27.3	Grease A DAG	TIDE: INCOMI 50 YDS SOUTHERL GAS LINE CROSSING WARNI GN BROWN 10 4 WATER
ROAMANT ANGER ADDRESS	LAT: 41.988 LONG: 73.015	temperature J68	Grease NOME	FLOW: ALWAYS EASTI DWW STREAM)- LOCAL NOT TIDAL. STRAIG T FROM WESTERLY END BOAT LAVNCH
DVPLI CATE	LONG: STET	DO temperature	Grease Floatables Odors	STE#7

Temperature:



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401

401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Samples rec'd in lab drop box

Order ID:

123005

Sample Number:

219182

Sample Location:

site #1

Sample Comment:

FC rec'd at 8.8 deg C.

Date/Time sample collected:

7/27/2014 13:

13:18

Collected By:

Rich Terpening

Data/Time sample received:

7/27/2014

16:30

Received by:

Anne

Data/Time sample analyzed:

7/27/2014 1

17:50

Tech: AGS

Test Method

Fecal Coliform

Parameter

Test Result*

Unite CFU/100mL

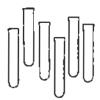
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

29-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

PO# NY 12401 Kingston

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Samples rec'd in lab drop box

Order ID:

123005

Sample Number:

219183

Sample Location:

site #2

Sample Comment:

FC rec'd at 9.0 deg C.

Date/Time sample collected:

7/27/2014

Collected By: Rich Terpening

Date/Time sample received:

7/27/2014

13:29 16:30

Received by:

Date/Time sample analyzed:

7/27/2014

17:50

Anne

Tech: AGS

Parameter Fecal Coliform Test Result* 380

Units CFU/100mL **Test Method** SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

29-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Cilent: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Samples rec'd in lab drop box

Order ID:

123005

Sample Number:

219184

Sample Location:

site #3

7/27/2014

Sample Comment:

FC rec'd at 8 deg C.

Collected By:

Rich Terpening

Date/Time sample collected: Date/Time sample received:

7/27/2014

13:36

Date/Time sample analyzed:

7/27/2014

16:30 17:50

Received by: Anne Tech:

AGS

Parameter

Test Result*

Unite

Test Method

Fecal Coliform

140

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

29-Jul-14



4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Samples rec'd in lab drop box

Order ID:

123005

Sample Number:

219185

Sample Location:

site #4

Sample Comment:

FC rec'd at 10 deg C.

Date/Time sample collected:

7/27/2014 13:44 Collected By:

Rich Terpening

Date/Time sample received:

7/27/2014

Received by:

Anne

Date/Time sample analyzed:

16:30 7/27/2014 17:50

Tech:

AGS

Parameter

Test Result*

Unita

Test Method

Fecal Coliform

60

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

29-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rendout Creek

Sample Type:

Surface Water

Order comment:

Samples rec'd in lab drop box

Order ID:

123005

Sample Number:

219186

Sample Location:

site #5

7/27/2014

Sample Comment:

FC rec'd at 11 deg C.

Date/Time sample collected:

7/27/2014

13:50

Collected By:

Rich Terpening

Date/Time sample received:

Received by:

Anne

Date/Time sample analyzed:

7/27/2014

16:30 18:00

Tech: AGS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 10

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

29-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO #

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Samples rec'd in lab drop box

Order ID:

123005

Sample Number:

219187

Sample Location:

site #8

Sample Comment:

FC rec'd at 11 deg C.

Date/Time sample collected:

7/27/2014 13:41

Collected By:

Rich Terpening

Date/Time sample received:

Received by:

Аппе

Date/Time sample analyzed:

7/27/2014 16:30 7/27/2014

18:00

Tech: AGS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

30

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

29-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Samples rec'd in lab drop box

Order ID:

123005

Sample Number:

219188

Sample Location:

site #7

Sample Comment:

FC rec'd at 9.5 deg C.

Date/Time sample collected:

7/27/2014

14:25

Collected By:

Rich Terpening

Date/Time sample received:

7/27/2014 16:

16:30

Received by: Anne

ch: AGS

Date/Time sample analyzed:

7/27/2014 18:00

Tech:

Test Method

Parameter
Fecal Coliform

Test Result*
< 10

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

29-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Samples rec'd in lab drop box

Order ID:

123005

Sample Number:

219189

7/27/2014

Sample Location:

duplicate/site #7

Sample Comment: Date/Time sample collected: FC rec'd at 10 deg C. 7/27/2014

14:25

Collected By:

Rich Terpening

Date/Time sample received:

Received by:

Аппе

Date/Time sample analyzed:

7/27/2014 16:30

18:00

Tech: AGS

Test Method

Parameter Fecal Coliform Test Result* < 10

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

29-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Samples rec'd in lab drop box

Order ID:

123005

Sample Number:

219190

Sample Location:

Blank QC

Sample Comment:

100 mL of buffered rinse water used

Date/Time sample collected:

Collected By:

Anne Smith

Date/Time sample received:

7/27/2014

17:50

Received by:

Anne

Date/Time sample analyzed:

7/27/2014 7/27/2014 17:50 17:50

Tech: 58

Test Method

Parameter Fecal Coliform Test Result* < 1

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

29-Jul-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Sample Type:

Surface Water Rondout Creek

Client Project Name: Order comment:

Samples rec'd in lab drop box

Order ID: 123005 Sample Number: 219182

Sample Location:

site #1

Date/Time sample collected:

7/27/2014 13:18 Sample Collected By: Allen Winchell

Date/Time samples received:

7/27/2014 16:30

Sample Received by: Anne

Test Date Test Time

Sample Comment:

Total Suspended Solids

FC rec'd at 8.8 deg C.

< 1

Test Result Units **Test Method**

> SM20 2540 D 7/30/2014

Tech** SW

Solids, Settleable

Parameter:

< 0.1 mL/L

mg/L

SM20 2540F

7/28/2014 11:00 SW

Order ID: 123005

219183 Sample Number:

Test Result

Sample Location: Date/Time sample collected: site #2 7/27/2014 13:29 7/27/2014 16:30

Sample Collected By: Sample Received by:

Allen Winchell

Date/Time samples received: Sample Comment:

FC rec'd at 9.0 deg C.

Test Date Test Time

Anne

Tech** SW

Parameter:

Total Suspended Solids Solids, Settleable

Date/Time sample collected:

mg/L < 0.1 mL/L

Units

Test Method SM20 2540 D SM20 2540F

7/30/2014 7/28/2014

SW

Order ID: 123005 Sample Location:

Sample Number: 219184

site #3

7/27/2014 13:36

Sample Collected By:

Allen Winchell

11:00

Date/Time samples received: Sample Comment:

7/27/2014 16:30

Sample Received by:

Аппе

Parameter:

FC rec'd at 8 deg C.

< 0.1

Units

mg/L

mL/L

mL/L

Test Method SM20 2540 D Test Date Test Time

Tech** \$W

Total Suspended Solids Solids, Settleable

Sample Number:

SM20 2540F

7/30/2014 7/28/2014

SW

123005

219185

Order ID:

Test Result

11:00

Sample Location:

site #4

Sample Collected By:

Allen Winchell

Date/Time sample collected: Date/Time samples received: 7/27/2014 13:44 7/27/2014 16:30

Sample Received by:

Anne

Test Date Test Time

Sample Comment:

Total Suspended Solids

FC rec'd at 10 deg C.

Tech** SW

Parameter:

Solids, Settleable

Test Result Unita 7 mg/L

< 0.1

Test Method SM20 2540 D SM20 2540F

7/30/2014 7/28/2014

11:00

SW



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

Sample Comment:

Solids, Settleable

Total Suspended Solids

Parameter:

NY 12401 PO#

123005 219186 Order ID: Sample Number: Sample Location: site #5 7/27/2014 13:50 Allen Winchell Date/Time sample collected: Sample Collected By: Date/Time samples received: 7/27/2014 16:30 Sample Received by: Anne Sample Comment: FC rec'd at 11 deg C. Tech** Parameter: **Test Result** Units **Test Method** Test Date Test Time Total Suspended Solids 7 mg/L SM20 2540 D 7/30/2014 SW SM20 2540F 7/28/2014 11:00 SW Solids, Settleable < 0.1 mL/L Order ID: 123005 Sample Number: 219187 Sample Location: site #6 Date/Time sample collected: 7/27/2014 13:41 Sample Collected By: Allen Winchell 7/27/2014 16:30 Date/Time samples received: Sample Received by: Anne FC rec'd at 11 deg C. Sample Comment: Unite **Test Method** Test Date Test Time Tech** Parameter: Test Result SW Total Suspended Solids mg/L SM20 2540 D 7/30/2014 < 0.1 mL/L SM20 2540F 7/28/2014 11:00 SW Solids, Settleable Order ID: 123005 Sample Number: 219166 Sample Location: site #7 7/27/2014 14:25 Sample Collected By: Allen Winchell Date/Time sample collected: 7/27/2014 16:30 Date/Time samples received: Sample Received by: Anne Sample Comment: FC rec'd at 9.5 deg C. **Test Result** Units Test Date Test Time Tech** Parameter: **Test Method** SW Total Suspended Solids mg/L SM20 2540 D 7/30/2014 Solids, Settleable mL/L SM20 2540F 7/28/2014 11:00 SW < 0.1 Order ID: 123005 Sample Number: 219189 duplicate/site #7 Sample Location: Date/Time sample collected: 7/27/2014 14:25 Sample Collected By: Allen Winchell 7/27/2014 16:30 Date/Time samples received: Sample Received by: Anne

FC rec'd at 10 deg C.

< 1

< 0.1

Units

mg/L

mL/L

Test Method

SM20 2540 D

SM20 2540F

Test Result

Tech**

SW

SW

Test Date Test Time

11:00

7/30/2014

7/28/2014



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6538

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO #

Order ID: 123005 Sample Number:

Sample Location:

Blank QC

Date/Time sample collected: Date/Time samples received: 7/27/2014 17:50 7/27/2014 17:50

< 0.1

Sample Collected By:

Anne Smith

Sample Received by:

Anne

Sample Comment:

Total Suspended Solids

100 mL of buffered rinse water used Units

mg/L

mL/L

219190

Test Result < 1

Test Method SM20 2540 D SM20 2540F

Test Date Test Time 7/30/2014

7/28/2014

Tech** SW

SW

Solids, Settleable Results Comment:

Parameter:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

11-Aug-14

11:00

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOO blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value ebove quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

SMITH LABORATORY 4 Scenic Drive Hyde Park, NY 12538-1313 Phone: 845-229-6536 Turnaround Time: Standard RUSH (Rush surcharge approximately 1988)										Login Review: **LOGIN Review: Amt Due: Amt Paid: Pmt Method :			
	CITY OF KINGSTON							Project/Fac	_	NDOU			
	SS: 420 BROADWAY							gov Lo ON PWS Fed II					
LAB USE ONLY	CLIENT: COMPLE	TE THE	SAMI	PLE IN	FORM.	TION IN	THE SPAC	E PROVIDED BELOW		LA	B USE O	NLY	
Order ID No: 123005	Sample Identification & Sample Point	Matrix	(C)	Check O	ne) First	Treatment Type &	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp,	Pres.	
Sample No:	SITE #1	SW	X	# hrs	Draw	Residual	1/3/14	SS TSS	I-ILPLAS I-I/2 L PLAS	Y	0.9 C	N/A	
219183 3	SITE #2	sw	х				7 27/14	SS TSS	1-ILPLAS 1-1/2 L PLAS	Y	11.9	()	
2191843	SITE #3	sw	х				マタシナ	SS TSS	1-1LPLAS 1-1/2 L PLAS	У	12.3	N	
219185 \$	SITE #4	sw	Х				7/27/14	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	12.0	N	
219186 8	SITE #5	sw	Х				7/27/4	SS TSS	1-ILPLAS 1-1/2 L PLAS	Y	11910	N	
219187 3	SITE #6	sw	х				7/2/1/	155	1-ILPLAS 1-1/2 L PLAS	Y	13.1	N	
219188	SITE #7	SW	Х				7/31/14	SS TSS	1-ILPLAS 1-1/2 L PLAS	Y	12/16/	10	
219189 3	DUPLICATE	sw	Х				7/27/1	SS TSS	I-ILPLAS I-1/2 L PLAS	Y	17.80°C	N	
							001		,				
Sampled By: (Nammy knowledge, I al Sample Relinquishe Sample Relinquishe	e) Allew Was affirm that I am responsible for payment, und By	eless other p	ayment	Receive	ed By:			I hereby affirm that the inflatoratory.	Date: 7/2;		Time	te best of	
Sample(s) received Thermal Preservati	met the following requirements				Comme								
Chemical Preserva	tion: NA Yes No												
Correct Bottle Typ	ed in good con	lition	200	ice	Smith La	boratory Chai	n of Custody Re	cv. 4, 2/14 Data Rev	riew: Mgr	7	Date &	16	

SAMPLING EVENT # 17.

Attach nt 1 - Sampling Event Summary Sheet

SUDIPEREN (R SUDEOSON)

Date: 7/3///

Page ___ of ___

Sampling Team:

Initials:

Weather:

Cloudy 10

Temperature:

750-800

Direction of Flow:

CUT GOING HIGH TIDE

Sampling Location	Time	Field Parameter	Physical Observations	Com	ments		
SITE#1: MID-RONDOUT CREEK APPROX. 250 YOS	LATITUDE: 41.90%	DO 7.0	Grease NoviB	TIDE:APPROX.15 YDS WESTE	EQUI AF CIT. EV NO		
UPSTREAM OF WILBUR	LONGITIDE: 74.004	temperature 35.5°C	Floatables NON F	DOCK AT PROPERTY BOI	UNDARY BETWEEN		
	164574		Odors NONR	FEENEY AND RECYCLING BUSINESS			
SITE #2: MID-RONGOUT CREEK - UPSTREAM	LAT: 41 912	DO 7,4	Grease Nove	TIDE:	OF ISLAND DOCK		
OF BLOCK PARK	Lone: 73.491	temperature 35,0°C	Floatables いっかさ	CAUSEWAY CULVE			
	11:044		Odors NONE	CUIC	3		
SITE #3: MID- RONDAUT CREEK	LATI UI. GIY	DO 7,4	Grease DowG	25 YDS SOUTHER	OLD STEEL COM WATER NEA		
APPROX. 150 YDS UPSTREAM OF OLD	LONG: 73,981	temperature 25.3°C	Floatables Noos	BOILER PROTRUDIA			
BRIDGE	Maria		Odors None	ISLAND DOCK BULKY			
SITE #6: MID- ROMDOUT CREEK	LAT:41,918	DO 7.5	Grease Mane	TIDE:	OF CLEAR WATER		
INDER NEW BRIDGE	LONG: 73.981	temperature 25.6	Floatables U ave	MAINTENANCE SHE			
	11:184		Odors Done	CUTGO			
SITE #4: MID - RONDOUT CREEK	LAT: 41.919 LONG: 73.978	DO 715	Grease NOSE	TIDE :	F STEELHOUSE PATIO		
PPROX. ZOO YDS		temperature 25,5°C	Floatables Ooca	RESTAURANT CONE			
NEW BRIDGE	1125A		Odors NONE	OUTGOIN			
SITE E5: MID- RONDOUT CREEK	LAT:41,921	00 7.6	Grease Nové	TIDE :	c cas use		
IPSTREAM OF BLOCK	LONG: 73,969	temperature 25.6	Floatables NONE	50 YDS SOUTHERLY O CROSSING WARNING	SIGN		
PARK	11:324		Odors NENE	OUTGOIN			
SITE # 7: MID - ROWDOUT CREEK APPROX	LATINH: 1885 LONG: 73. C15	DO 1/8	Grease Unué	FLOW: ALWAYS EASTERLY. NOTTIDAL. STRAIGHT	(DOWN STREAM) - LOCA		
3/4 MILE UPSTREAM OF EDDYVILLE DAM AT		temperature 35.3°		END BOAT LAVNCH	cor them westerly		
HYSDEC BOAT CHUNCH	12300		Odors DOJE	OUTCOIN			
DUDLI CATE	LAT:	DO	Grease	OF H	7		
DVPLICATE	LONGISITEH!	temperature	Floatables	SITE #1			
			Odors	· ·			



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6538

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123136

Sample Number:

219465

Sample Location:

Site #1, grab

Sample Comment:

FC rec'd at 11.1 deg C

Date/Time sample collected:

7/31/2014

10:52

Collected By:

Allen Winchell

Date/Time sample received:

7/31/2014

Received by: Karolina

SS

Date/Time sample analyzed:

15:00 7/31/2014 17:00

Tech:

Test Method

Parameter Fecal Coliform Test Result* 20**

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment: **Sample was analyzed 62 mins outside of 6 hr. holding time.

Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123136

Sample Number:

219466

Sample Location:

Site #2, grab

Sample Comment:

FC rec'd at 8.1 deg C

Date/Time sample collected:

11:04

Collected By:

Allen Winchell

Date/Time sample received:

7/31/2014

7/31/2014

Received by:

Karolina

Date/Time sample analyzed:

7/31/2014

15:00 17:00

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 10

CFU/100mL

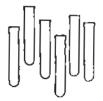
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

12401 NY

PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123138

Sample Number:

219467

Sample Location:

Site #3, grab

Sample Comment:

FC rec'd at 8.3 deg C

Date/Time sample collected:

7/31/2014 11:11 Collected By:

Allen Winchell

Date/Time sample received:

Received by:

Karolina

Date/Time sample analyzed:

7/31/2014 7/31/2014 15:00 17:00

Tech: SS

Test Method

Parameter Fecal Coliform Test Result* 20

Units CFU/100mL

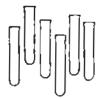
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123136

Sample Number:

219468

Sample Location:

Site #4, grab

Sample Comment:

FC rec'd at 7.7 deg C

Date/Time sample collected:

7/31/2014

11:25

Collected By:

Allen Winchell

Date/Time sample received:

Received by:

Karolina

Date/Time sample analyzed:

7/31/2014 15:00 7/31/2014

17:00

Tech: SS

Test Method

Parameter Fecal Coliform Test Result* 10

Units CFU/180mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123136

Sample Number:

219469

Sample Location:

Site #5, grab

Sample Comment:

FC rec'd at 7.8 deg C

Date/Time sample collected:

7/31/2014

11:32

Collected By:

Allen Winchell

Date/Time sample received:

15:00

Received by: Tech:

Karolina

Date/Time sample analyzed:

7/31/2014 7/31/2014 17:00

SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

10

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston NY 12401

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123136

Sample Number:

219470

Sample Location:

Site #6, grab

7/31/2014

Sample Comment:

FC rec'd at 8.0 deg C

Date/Time sample collected:

11:18

7/31/2014

Collected By:

Allen Winchell Karolina

Date/Time sample received: Date/Time sample analyzed: 7/31/2014

15:00

Received by: Tech: SS

PO#

Parameter

Test Result*

17:00

Units

Test Method SM 18 9222D

Fecal Coliform

40

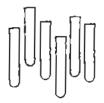
CFU/100mL

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

PO# Kingston NY 12401

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123136

Sample Number:

219471

Sample Location:

Site #7, grab

Sample Comment:

FC rec'd at 9.3 deg C

Date/Time sample collected:

7/31/2014

Collected By: 12:10

Allen Winchell

Date/Time sample received:

7/31/2014

15:00

Received by: Karolina

Date/Time sample analyzed:

7/31/2014 17:00 Tech: SS

Parameter

Test Result*

Units

Test Method SM 18 9222D

Fecal Coliform

20

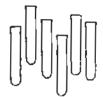
CFU/100mL

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

Order ID:

123136

Sample Number:

219472

Sample Location:

Duplicate Site #1, grab

Sample Comment:

FC rec'd at 9.3 deg C

Date/Time sample collected:

7/31/2014

10:52

Collected By:

Allen Winchell

Date/Time sample received:

Date/Time sample analyzed:

7/31/2014

Received by:

Karolina

7/31/2014

15:00 17:00

Test Method

Parameter Fecal Coliform Test Result* 10**

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

**Sample was analyzed 62 mins outside of 6 hr. holding time. Results Comment:

Reviewed by: Lat/ Manager, ELAP Lab ID #10924

06-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO #

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

123136

Sample Number:

219935

Sample Location:

Blank-QC

Sample Comment:

100 mL of buffered rinse water used

Date/Time sample collected:

7/31/2014

Collected By:

Data/Time sample received:

17:00 7/31/2014 17:00

Received by:

Date/Time sample analyzed:

7/31/2014 17:00

Tech:

Karolina

SS

Parameter

Test Result*

Units

Test Method SM 18 9222D

Fecal Coliform

< 1

CFU/100mL

"Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO #

Sample Type: Client Project Name: Surface Water Rondout Creek

Order comment:

Order ID: 123136 Sample Number: 219465 Sample Location: Site #1, grab

Date/Time sample collected: 7/31/2014 10:52 Sample Collected By: Date/Time samples received 7/31/2014 15:00 Sample Received by:

Sample Comment: FC rec'd at 11.1 deg C

Parameter: **Test Result** Units **Test Method** Test Date Test Time Tech** Solids, Settleable < 0.1 mL/L SM20 2540F 8/1/2014 10:50 SW Total Suspended Solids SM20 2540 D 8/5/2014 SW mg/L

Order ID: 123136 Sample Number: 219466

Sample Location: Site #2, grab

Date/Time sample collected: 7/31/2014 11:04 Sample Collected By: Allen Winchell Date/Time samples received 7/31/2014 15:00 Sample Received by: Karolina

Sample Comment: FC rec'd at 8.1 deg C

Parameter: Test Result Units **Test Method** Test Date Test Time Tech** Solids, Settleable < 0.1 SM20 2540F 8/1/2014 SW mL/L 10:50 Total Suspended Solids SM20 2540 D 8/5/2014 mg/L SW

Order ID: 123136 **Sample Number:** 219467

Sample Location: Site #3, grab

Date/Time sample collected: 7/31/2014 11:11 Sample Collected By:

 Date/Time sample collected:
 7/31/2014
 11:11
 Sample Collected By:
 Allen Winchell

 Date/Time samples received
 7/31/2014
 15:00
 Sample Received by:
 Karolina

Sample Comment: FC rec'd at 8.3 deg C

Parameter: Test Result Units **Test Method** Test Date Test Time Tech** Solids, Settleable < 0.1 mL/L SM20 2540F 8/1/2014 10:50 SW Total Suspended Solids SM20 2540 D 8/5/2014 1 mg/L SW

Sample Collected By:

Order ID: 123136 **Sample Number:** 219468

 Sample Location:
 Site #4, grab

 Date/Time sample collected:
 7/31/2014
 11:25

 Date/Time samples received
 7/31/2014
 15:00

Date/Time samples received 7/31/2014 15:00 Sample Received by: Sample Comment: FC rec'd at 7.7 deg C

Parameter: Units Test Result **Test Method** Test Date Test Time Tech** Solids, Settleable < 0.1 mL/L SM20 2540F 8/1/2014 10:50 SW Total Suspended Solids 2 mg/L SM20 2540 D 8/5/2014 SW

Allen Winchell

Allen Winchell

Karolina

Karolina



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO #

Order ID: 123136 **Sample Number:** 219469

Sample Location: Site #5, grab

Date/Time sample collected:7/31/201411:32Sample Collected By:Allen WinchellDate/Time samples received7/31/201415:00Sample Received by:Karolina

Sample Comment: FC rec'd at 7.8 deg C

Test Method Test Date Test Time Tech** Parameter: Test Result Units < 0.1 mL/L SM20 2540F 8/1/2014 10:50 SW Solids, Settleable SW 8/5/2014 Total Suspended Solids 2 mg/L SM20 2540 D

Order ID: 123136 **Sample Number:** 219470

Sample Location: Site #6, grab

Date/Time sample collected:7/31/201411:18Sample Collected By:Allen WinchellDate/Time samples received7/31/201415:00Sample Received by:Karolina

Sample Comment: FC rec'd at 8.0 deg C

Test Date Test Time Tech** Parameter: **Test Result** Units **Test Method** SW < 0.1 mL/L SM20 2540F 8/1/2014 10:50 Solids, Settleable Total Suspended Solids 2 mg/L SM20 2540 D 8/5/2014 SW

Order ID: 123136 Sample Number: 219471
Sample Location: Site #7, grab

Date/Time sample collected: 7/31/2014 12:10 Sample Collected By: Allen Winchell Date/Time samples received 7/31/2014 15:00 Sample Received by: Karolina

Sample Comment: FC rec'd at 9.3 deg C

Parameter: Test Result Units **Test Method** Test Date Test Time Tech** 10:50 Solids, Settleable < 0.1 SM20 2540F 8/1/2014 SW mL/L Total Suspended Solids < 1 mg/L SM20 2540 D 8/5/2014 SW

Order ID: 123136 Sample Number: 219472 Sample Location: Duplicate Site #1, grab

Date/Time sample collected: 7/31/2014 10:52 Sample Collected By: Allen Winchell Date/Time samples received 7/31/2014 15:00 Sample Received by: Karolina

Sample Comment: FC rec'd at 9.3 deg C

Test Method Test Date Test Time Parameter: Test Result Units Tech** Solids, Settleable < 0.1 mL/L SM20 2540F 8/1/2014 10:50 SW SM20 2540 D 8/5/2014 SW Total Suspended Solids 2 mg/L



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401

PO#

Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

12-Aug-14

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

Total number of pages in this report, including chain of custody, is

SMITH LABO	RATORY				СН	AIN	OF CUS	STODY		Login R	leview:	0		
4 Scenic Drive										Amt Du	ie:			
Hyde Park, NY 12538-1313 Turnaround Time: Standa					ard \(\) Copy results to						Amt Paid:			
Phone: 845-229-6536								Local Healt		Pmt Me	thod:			
Fax: 845-229-6538 ** Date report requested:					Yes No V						Receipt No:			
		STON							Project/Fa					
		NY 12401							ON PWS Fed					
AB USE ONLY	CI	LIENT: COMPLE	ГЕ ТНЕ	SAMI	LE IN	FORM	ATION IN	THE SPAC	E PROVIDED BELOW		LA	B USE O	NLY	
Order ID No:	Order ID No:			(Check One)		Treatment	Date/Time	Analysis	Container &	Iced	Sample	Pres.		
123136 Sample No:	Sam	ple Point	Matrix	Grab	Comp # hrs	First Draw	Type & Residual	Sampled	Requested	Preservative	Y/N	Temp, Deg C	at Lab Y/N	
219465A	3SITE#1		sw	X				7/3/14 10:50A	SS TSS	1-1LPLAS 1-1/2 L PLAS	N	9,4/10	3/	
219466	SITE #2		sw	Х				11:0:4A	SS	I-ILPLAS I-I/2 L PLAS		7/7/5-		
2194/01	SITE #3		sw	Х				7/31/14	SS TSS	I-ILPLAS I-1/2 L PLAS		10.4/19		
219468A	SITE #4		sw	X				7/31/14 11:25A	SS TSS	1-ILPLAS 1-1/2 L PLAS		14.2/13.7		
219469A	SITE #5		sw	Х				7/31/14	SS TSS	1-1LPLAS 1-1/2 L PLAS		8.8/		
219470	SITE #6		sw	Х				7/31/14 11/18A	SS TSS	I-1LPLAS I-1/2 L PLAS		14.9/41		
2194711	SITE #7		sw	Х				7/31/14	SS TSS	1-1LPLAS 1-1/2 L PLAS		12.9/12.2		
219472	DUPLICATE		sw	Х				101594	SS	1-1LPLAS 1-1/2 L PLAS	1	17.4/43	7	
	1													
my knowledge. I a Sample Relinquishe	dso affirm that I am re	sponsible for payment, ur Blancheir	less other p		arrangeme Receiv	ents are ap	proved in adv	ance by Smith	I hereby affirm that the i		£ .			
	met the following red	According to the BERT AND POST OF A STATE OF THE STATE OF	-reusenes -a	Antonogo =	Receiv			recy	~	Detc. 110	1111	, Time	714	
	ion: NA Yes No					Comme	ents:							
Chemical Preserva	ution: NA Yes No		*			-								
Correct Bottle Typ	e Yes No_												1	
Other				,		Comitate P	hamte Class	n of County I. D	4 2/14 Deta D	avious No-	1	Date 8	111	
	Charles and the second				-	Smith La	Chai	n of Custody Re	cv. 4, 2/14 Data Ki	eview: Mgr		Date	V	

SAMPLING EVENT # 18 DEPLEATABLE.

Date: 8-5-17 Page_of_

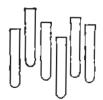
Initials: ALLEN

RELIENT S. Sampling Team: VIIIL 75 F - 80 K Weather:

Temperature:

Direction of Flow:

Sampling Location	Time	Field Parameter	Physical Observations	Com	ments
SITE#1: MID-ROADOUT CREEK APPROX. 250 YOS UPSTREAM OF WILBUR AVE. OUTFALL	LATITUDE: 44,900 LONGITUDE: 74,004	temperature 26.2	Grease ルシル色 Floatables わらんが Odors ハシルモ	APPROX.15 YDS WESTE DOCK AT PROPERTY BO FEEDLEY AND RECYCLING B	UNDARY BETWEEN
SITE #2: MID-ROWST CREEK - UPSTREAM OF BLOCK PARK	LAT: 41.912 LONG: 73.492	temperature 25.5	Grease VOOR Floatables NONA Odors NONA	TIDE: DU GOLLS 50 YDS SOUTHERLY CAUSEWAY CULVE	OF ISLAND DOCK
SITE #3: MID- RONDAUT CREEK APPROX. 150 YOS UPSTREAM OF OLD BRIDGE	LAT: 46.914 LONG: 73.981	temperature LT.5	Grease No No. 2 Floatables No No.	TIDE: OUT GOT 25 YDS SOUTHER BOILER PROTRUDIA ISLAND DOCK BULKH	OF OLD STEEL SOM WATER MEAR
SITE #6; MID- ROMDOUT CREEK INDER NEW BRIDGE	LAT: 41,918 LONG: 73,960	DO 9.3 temperature 24.3		TIDE: OUTGOID 50 YDS SOUTHER MAINTENANCE SHE!	OF CLEAR WATER UBLE SLIDE DOORS
ITE #4: MID- 20NOOUT CREEK IPPROX. ZOO YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.319 LONG: 73,978	DO 8.9 temperature 26.1	Glease None	TIDE: OUTGOI 50 YDS SOUTHERN RESTAURANT COME	F STEELHOUSE PATIO
CHONT CREEK	LAT: 41.921 LONG: 73.969	DO 79 temperature 25.7	Grease Nope Floatables None Odors Nope	TIDE: OUTGO 50 YDS SOUTHERLY & CROSSING WARNING	SIGN
SITE # 7; MID - CONDOUT CREEK APPROX 8/4 MILE UPSTREAM OF DOYVILLE DAM AT NYSDEC BOAT LAUNCH	1 ml 2 32 05		Grease None	FLOW: ALWAYS EASTERLY NOT TIDAL. STRAIGHT I END BOAT LAVNCH	
DUPLI CATE 5176 *=	LONGI	temperature	Grease Floatables Odors	STERZ	



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123241

Sample Number:

219695

Sample Location:

Site #1, grab

Sample Comment:

FC rec'd at 14.1 deg C

Date/Time sample collected:

8/5/2014

10:06

Collected By:

Ralph S.

Date/Time sample received:

8/5/2014

13:40

Received by:

Karolina

Data/Time sample analyzed:

8/5/2014 15:15 Tech:

DMD

Parameter

Test Result*

Unite

Test Method

Fecal Coliform

10

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

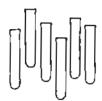
Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Aug-14

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the citent is assumed to be correct.

The total number of pages in this report is 1 (one).



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123241

Sample Number:

219696

8/5/2014

Sample Location:

Site #2, grab

Sample Comment:

FC rec'd at 12.8 deg C

Date/Time sample collected:

10:17

Collected By:

Raiph S

Date/Time sample received:

8/5/2014

Received by:

Karolina

Date/Time sample analyzed:

8/5/2014

13:40 15:15

Tech: DMD

Parameter

Test Result*

Unite

Test Method SM 16 9222D

Fecal Coliform

30

CFU/100mL

*Bacteriological test results are expressed as Colony Forming Units.

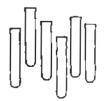
Results Comment:

Reviewed by: Lab Mahager, ELAP Lab ID #10924

11-Aug-14

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Stundards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

The total number of pages in this report is 1 (one).



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123241

Sample Number:

219697

Sample Location:

Site #3, grab

Sample Comment:

FC rec'd at 12.0 deg C

Date/Time sample collected:

8/5/2014 10:23

Ralph S.

Date/Time sample received:

13:40

Collected By:

Karolina

8/5/2014

Received by:

DMD

Date/Time sample analyzed:

8/5/2014

15:15

Units

Tech:

Test Method

Parameter Fecal Coliform Test Result* 10

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Aug-14



4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8538

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

PO# Kingston NY 12401

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

Order ID:

123241

Sample Number:

219698

Sample Location:

Site #4, grab

Sample Comment:

FC rec'd at 12.9 deg C

8/5/2014 10:29

Date/Time sample collected:

Collected By:

Ralph S.

Date/Time sample received:

8/5/2014

13:40

Received by: Karolina

Tech: DMD

Date/Time sample analyzed:

8/5/2014

15:15

Test Method

Parameter Fecal Coliform Test Result* 30

Units CFU/100mL

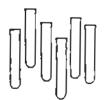
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

11-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123241

Sample Number:

219699

Sample Location:

Site #5, grab

Sample Comment:

FC rec'd at 11.8 deg C

Date/Time sample collected:

8/5/2014

10:33

Collected By:

Raiph S.

Date/Time sample received:

8/5/2014

13:40

Received by:

Karolina

Date/Time sample analyzed:

8/5/2014

15:15

DMD Tech:

Parameter Fecal Coliform Test Result* 50

Units CFU/100mL

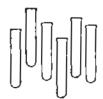
Test Method SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

Order ID:

123241

Sample Number:

219700

Sample Location:

Site #6, grab

Sample Comment:

FC rec'd at 11.1 deg G

Date/Time sample collected:

8/5/2014

Collected By:

Ralph S.

Date/Time sample received:

10:26

Karolina

8/5/2014

13:40

Received by:

DMD

Date/Time sample analyzed:

8/5/2014

15:15

Test Method

Parameter Fecal Coliform Test Result* 50

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Aug-14

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The total number of pages in this report is 1 (one).



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY

PO#

Client Project Name:

Rondout Creek

12401

Sample Type:

Surface Water

Order comment:

Order ID:

123241

Sample Number:

219701

Sample Location:

Site #7, grab

Sample Comment:

FC rec'd at 11.2 deg C

Date/Time sample collected:

8/5/2014 11:00 Collected By:

Ralph S.

Date/Time sample received:

13:40 8/5/2014

Received by:

Karolina

Date/Time sample analyzed:

8/5/2014

15:15

DMD

Parameter

Test Result*

Units

Test Method

Fecal Coliform

10

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

12401 NY

PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123241

Sample Number:

219702

Sample Location:

Duplicate Site #2, grab

Sample Comment:

FC rec'd at 12.5 deg C

Date/Time sample collected:

8/5/2014 10:12

Collected By:

Ralph S.

15:15

Date/Time sample received:

8/5/2014 13:40

Received by:

Karolina DMD

Date/Time sample analyzed:

8/5/2014

Parameter Fecal Coliform Test Result* 20

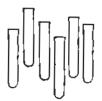
Units CFU/100mL Test Method SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

123241

Sample Number:

219703

Sample Location:

Blank-QC

Sample Comment:

100 mL buffered rinse water used.

Data/Time sample collected:

8/5/2014

8/5/2014

15:15

Collected By:

Ralph S.

Date/Time sample received:

Received by:

Karolina

Date/Time sample analyzed:

8/5/2014

15:15 15:15

Tech:

DMD

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 1

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Sample Type: Client Project Name: Surface Water Rondout Creek

Order comment:

Order ID: 123241 **Sample Number:** 219695

Sample Location: Site #1, grab

Date/Time sample collected: 8/5/2014 10:06 Sample Collected By: AW

Date/Time samples received: 8/5/2014 13:40 Sample Received by: Karolina

Sample Comment: FC rec'd at 14.1 deg C

Parameter: **Test Result** Units **Test Method** Test Date Test Time Tech** Total Suspended Solids 8/8/2014 SW 3 mg/L SM20 2540 D Solids, Settleable SM20 2540F 8/5/2014 16:00 LAE < 0.1 mL/L

Order ID: 123241 Sample Number: 219696

Sample Location:

Date/Time sample collected: 8/5/2014 10:17 Sample Collected By: AW

Date/Time samples received: 8/5/2014 13:40 Sample Received by: Karolina

Site #2, grab

Sample Comment: FC rec'd at 12.8 deg C

Parameter: **Test Result** Units **Test Method** Test Date Test Time Tech** **Total Suspended Solids** 8/8/2014 SW 4 mg/L SM20 2540 D Solids, Settleable mL/L < 0.1 SM20 2540F 8/5/2014 16:00 LAE

Order ID: 123241 Sample Number: 219697

Sample Location: Site #3, grab

Date/Time sample collected:8/5/201410:23Sample Collected By:AWDate/Time samples received:8/5/201413:40Sample Received by:Karolina

Sample Comment: FC rec'd at 12.0 deg C

Parameter: Test Date Test Time **Test Result** Units **Test Method** Tech** **Total Suspended Solids** 4 mg/L SM20 2540 D 8/8/2014 SW Solids, Settleable < 0.1 mL/L SM20 2540F 8/5/2014 16:00 LAE

Order ID: 123241 Sample Number: 219698

Sample Location: Site #4, grab

Date/Time sample collected: 8/5/2014 10:29 Sample Collected By: AW

Date/Time samples received: 8/5/2014 13:40 Sample Received by: Karolina

Sample Comment: FC rec'd at 12.9 deg C

Parameter: Test Date Test Time **Test Result** Units **Test Method** Tech** Total Suspended Solids 3 ma/L SM20 2540 D 8/8/2014 SW Solids, Settleable 8/5/2014 LAE < 0.1 mL/L SM20 2540F 16:00



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

PO#

Karolina

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

12401 Kingston NY

123241 Sample Number: 219699 Order ID:

Sample Location: Site #5, grab

10:33 AW 8/5/2014 Sample Collected By: Date/Time sample collected: Karolina Date/Time samples received: 8/5/2014 13:40 Sample Received by:

Sample Comment: FC rec'd at 11.8 deg C

Test Result Test Method Test Date Test Time Tech** Parameter: Units SM20 2540 D 8/8/2014 SW Total Suspended Solids 4 mg/L SM20 2540F 8/5/2014 16:00 LAE Solids, Settleable < 0.1 mL/L

Order ID: 123241 Sample Number: 219700

Sample Location: Site #6, grab

Sample Collected By: AW Date/Time sample collected: 8/5/2014 10:26 Karolina Date/Time samples received: 8/5/2014 13:40 Sample Received by:

Sample Comment: FC rec'd at 11.1 deg C

Parameter: **Test Result** Units Test Method Test Date Test Time Tech** Total Suspended Solids mg/L SM20 2540 D 8/8/2014 SW 4 SM20 2540F LAE 8/5/2014 16:00 Solids, Settleable < 0.1 mL/L

Order ID: 123241 219701 Sample Number:

Sample Location: Site #7, grab

AW Date/Time sample collected: 8/5/2014 11:00 Sample Collected By: 8/5/2014 13:40 Karolina Date/Time samples received: Sample Received by:

Sample Comment: FC rec'd at 11.2 deg C

Parameter: Test Result Units **Test Method** Test Date Test Time Tech** **Total Suspended Solids** SM20 2540 D 8/8/2014 SW 2 mg/L Solids, Settleable < 0.1 mL/L SM20 2540F 8/5/2014 16:00 LAE

Order ID: 123241 Sample Number: 219702 Sample Location: Duplicate Site #2, grab

AW Date/Time sample collected: 8/5/2014 10:12 Sample Collected By:

13:40

8/5/2014

Date/Time samples received: Sample Received by: Sample Comment: FC rec'd at 12.5 deg C

Parameter: Test Result Units **Test Method** Test Date Test Time Tech** Total Suspended Solids 2 mg/L SM20 2540 D 8/8/2014 SW Solids, Settleable SM20 2540F 8/5/2014 16:00 LAE < 0.1 mL/L



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:	City of Kingston Engineers Office
	Attn: Alan Adin

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO #

Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

18-Aug-14

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

Total number of pages in this report, including chain of custody, is ______

SMITH LABORATORY						CHAIN OF CUSTODY Login Review:							
4 Scenic Drive						J. 001			Amt Du	ıe:			
	Y 12538-1313 Turnaround Ti	ime: Standa	ard \]	*		Copy result	s to	Amt Pa	id:			
Phone: 845-229-6536 RUSH (Rush surcharge							Local Healt		Pmt Me	Pmt Method:			
Fax: 845-22							Yes 1		Receipt	No:			
	CITY OF KINGSTON							Project/Fac					
Mailing Addre	ss: 420 BROADWAY			Clien	t Email	:aadin@	kingston-ny.	.gov Lo	ocation:				
	KINGSTON, NY 12401			Сору	Report	To: _RAL	PH SWENS	ON PWS Fed I	D No: NY				
AB USE ONLY	CLIENT: COMPI	LETE THE	SAMI	PLE IN	FORM	ATION IN	THE SPAC	E PROVIDED BELOW		LA	B USE O	NLY	
Order ID No:	Sample Identification &		((Check O	ne)	Treatment	Date/Time	Analysis	Container &	Iced	Sample	Pres.	
Sample No:	Sample Point	Matrix	Grab	Comp # hrs	First Draw	Type & Residual	Sampled	Requested	Preservative	Y/N	Temp, Deg C	at Lab Y/N	
21910950	SITE#1	sw	X				815/14 10:00A	SS TSS	1-1LPLAS 1-1/2 L PLAS	W	174	11	
219696	SITE #2	sw	Х				815/14 101/2A	SS TSS	1-1LPLAS 1-1/2 L PLAS	D	11.5	1	
219697	SITE #3	sw	X				10:23A	SS TSS	1-1LPLAS 1-1/2 L PLAS		13.7		
016698	SITE #4	sw	Х				8(5)14 10)29A	SS	1-1LPLAS 1-1/2 L PLAS		13 8		
191099	SITE #5	sw	X				8 514 10:33A	SS	1-1LPLAS 1-1/2 L PLAS		17.9	1	
2190 760	SITE #6	sw	X				815/14 10:26A	SS TSS	1-1LPLAS 1-1/2 L PLAS	11.	19.5	-	
21967	SITE #7	sw	Х				8/5/14 11:00 A	SS TSS	1-1LPLAS 1-1/2 L PLAS		13.9	1	
219678	DUPLICATE	sw	X				815/14 10:17A	SS TSS	1-1LPLAS 1-1/2 L PLAS	1	17.9	1	
81/80	No.												
	ne) Ale Wuck	tell			Title)	SR C	PERAT	I hereby affirm that the ir	formation above is to	rue and co	omplete to t	he best of	
my knowledge. I	also affirm that I am responsible for payment	t, unless other	payment	агтапдет	ents are a	proved in adv	vance by Smith	Laboratory.	1	1			
Sample Relinquish	ed By:	Read		Receiv	ed By:	1,50	lezgell	4	Date: 8/5	119	Time:	44)	
Sample Relinquish	ned By:			Receiv	ed at Lab	ву:	wh		Date: 8/6	114	Time:	-wpn	
Sample(s) receive	ed met the following requirements				Comm								
Thermal Preserva	tion: NA (Yes No	*.			Contai								
Chemical Preserv	ration: NA Yes No				-								
Correct Bottle Ty	pe Yes No										-	1	
Other	V		•.							1	- 8	TIU	
				-	Smith L	aboratory Cha	in of Custody R	lev. 4, 2/14 Data Re	view: Mgr	10	Date (17	

PRYWEATHER.

Temperature:

SAMPLING EVENT # IY

Initials:

Date: 8 12 14. Page __of __

Sampling Team:

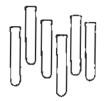
* ENDS a 10:15 (no accum lathon

Weather: Direction of Flow:

OUT EASTERS

LOW TIDE - 9:43 A

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-ROUDOUT CREEK APPROX. 250 YOS UPSTREAM OF WILBUR MYE, OUTFALL	LATITIDE: 41.906 LONGITUDE: 74.004 9-38 A	temperature 25.2°C	Grease NONE. Floatables NONE.	TIDE: OUT EASTELY. APPROX.15 YDS WESTERLY OF FLEARY DR. DOCK AT PROPERTY BOUNDARY BETWEEN FEEDLEY AND RECYCLING BUSINESS
SITE #2: MID-ROWERT CREEK - UPSTREAM OF BLOCK PARK	LAT: 4191 LONG: 73.94 9.47A.	temperature 24.9°C	Grease NONE Floatables NONE Odors NONE	TIDE: SUITEASTERLY OF ISLAND DOCK 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVERTS
SITE #3: MID- RONDOUT CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 4191 LONG: 7398 9574	temperature 25.1°C	Grease NOWE Floatables MOVE Odors NOVE	TIDE: OVT EASTLELY 25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEAR ISLAND DOCK BULLHEAD
SITE #6; MID- ROMDOUT CREEK UNDER NEW BRIDGE	LAT: 4192 LONG: 73.98 9 56A	DO 10 mg/L. temperature 25 2°C	Grease NOWE Floatables NOWE Odors WAYE	TIDE: OUT EASTERLY OF CLEARWATER MAINTENANCE SHED, DOUBLE SLIDE DOORS
	LAT: 4142 LONG:73.98	temperature 25/2°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EASTELL 50 YDS SOUTHERLY STEELHOUSE RESTAURANT CONERS PATIO
RONDING CREEK	LAT: 41.92 LONG: 73.97	temperature 25.1°C	Grease NOWE Floatables NOWE Odors NOWE	SO YDS SOUTHERLY GAS LINE CROSSING WARNING GN
SITE # 7: MID - RONDOUT CREEK APPROX. 3/2 MISS WOSTREAM OF EDOYVILLE DAM AT NYSDEC BOAT AVNCH	LAT: 41.99 LONG: 73.02 1735 A.	temperature 147	Grease NONE	FLOW: ALWAYS EASTERLY WINSTREAM)-LOCAL NOTTIDAL. STRAIGHT FROM WESTERLY END BOAT LAVNCH
DVPLI CATE	LAT: LONG: SITE#3	DO temperature	Grease NONE	MIN, MAL - VEI TATIVE. MATTER FLOATS.



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123464

Sample Number:

220265

Sample Location:

Site #1, grab

Sample Comment:

FC rec'd at 11.9 deg C.

Date/Time sample collected:

8/12/2014

9:38

AA

Date/Time sample received:

Collected By:

8/12/2014

12:15

Received by:

Amy Jo

Date/Time sample analyzed:

8/12/2014

13:25

Tech: SS

Test Method

Parameter Fecal Coliform Test Result* 60

Units CFU/100mL

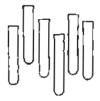
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

Order ID:

123464

Sample Number:

220266

Sample Location:

Site #2, grab

Sample Comment:

FC rec'd at 10.8 deg C.

Date/Time sample collected:

8/12/2014 9:47 Collected By:

AΑ

Date/Time sample received:

8/12/2014

Received by: Amy Jo

Date/Time sample analyzed:

8/12/2014

12:15

Tech: SS

Parameter

13:25

Units

Test Method

Fecal Coliform

Test Result* 10

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingsten NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123464

Sample Number:

220267

Sample Location:

Site #3, grab

Sample Comment:

FC rec'd at 11.5 deg C.

Date/Time sample collected:

8/12/2014 9:52

Collected By:

AA

Date/Time sample received:

8/12/2014 1

12:15

Received by: Amy Jo

Date/Time sample analyzed:

8/12/2014 13:25

Tech: SS

Test Method

Parameter Fecal Coliform Test Result*

Units CFU/100mL

SM 16 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123464

Sample Number:

220268

Sample Location:

Site #4, grab

Sample Comment:

FC rec'd at 10.8 deg C.

Date/Time sample collected:

8/12/2014 9:58

Collected By: AA

Date/Time sample received:

8/12/2014 12:15

Received by:

y: Amy Jo

Date/Time sample analyzed:

8/12/2014

13:25

Tech: SS

Parameter

Test Result*

Unite

Test Method

Fecal Coliform

80

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab/Manager, ELAP Lab ID #10924

14-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6538

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

NY 12401 PO# Kingston

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123464

Sample Number:

220269

Sample Location:

Site #5, grab

Sample Comment:

FC rec'd at 11.6 deg C.

Date/Time sample collected:

8/12/2014

10:04

Collected By: AA

Received by: Amy Jo

Date/Time sample received: Date/Time sample analyzed: 8/12/2014 8/12/2014 12:15 13:25

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

30

CFU/100mL

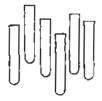
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed(by: Lab/Manager, ELAP Lab ID #10924

14-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

123464

Sample Number:

220270

Sample Location:

Site #6, grab

Sample Comment:

FC rec'd at 15.6 deg C.

Date/Time sample collected:

8/12/2014

9:56

Collected By:

AΑ

Date/Time sample received: Date/Time sample analyzed: 8/12/2014 8/12/2014 12:15 13:25

Amy Jo Received by:

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

30

CFU/100mL

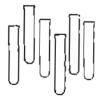
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units

Results Comment:

by: Lab Manager, ELAP Lab ID #10924

14-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston NY 12401

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

Order ID:

123464

Sample Number:

220271

Sample Location:

Site #7, grab

Sample Comment:

FC rec'd at 14.8 deg C.

Date/Time sample collected:

8/12/2014

10:35

13:25

Collected By:

AΑ Received by: Army Jo

Date/Time sample received: Date/Time sample analyzed: 8/12/2014 8/12/2014 12:15

Tech: SS

PO#

Parameter

Test Result⁴

Units

Test Method

Fecal Coliform

< 10

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Regults Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

123464

Sample Number:

220272

Sample Location:

Duplicate, Site #3, grab FC rec'd at 16.8 deg C.

Sample Comment: Date/Time sample collected:

8/12/2014 9:52

Collected By:

AΑ Received by: Amy Jo

Date/Time sample received: Date/Time sample analyzed: 8/12/2014 8/12/2014 12:15 13:25

Tech:

Parameter

Units

Test Method

Fecal Coliform

Test Result* 50

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

12401

PO#

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

123464

Sample Number:

220273

Sample Location:

Blank-QC

Sample Comment:

100 mL of buffered rinse water used

Date/Time sample collected:

8/12/2014 13:25 Collected By:

Date/Time sample received:

8/12/2014

13:25

Received by: Amy Jo

Date/Time sample analyzed:

8/12/2014 13:25 \$\$

Tech:

Parameter

Test Result*

Units

Test Method SM 18 9222D

Fecal Coliform

< 1

CFU/100mL

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

Cilent: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

12401 NY

PO#

Sample Type: Client Project Name: Surface Water Rondout Creek

Order comment:

123464 Order ID:

Sample Number: 220265

Sample Location:

Site #1, grab

Test Result

Date/Time sample collected:

8/12/2014 9:38

Sample Collected By:

AΑ

Data/Time samples received:

8/12/2014 12:15

Sample Received by:

Amy Jo

Sample Comment:

FC rec'd at 11.9 deg C.

Test Date Test Time Test Method

Tech**

12:25

Total Suspended Solids Solids, Settleable

Parameter:

mg/L

Units

mL/L

SM20 2540 D SM20 2540F

8/14/2014 8/12/2014

SW

SW

123464 Order ID:

< 0.1 Sample Number: 220266

Sample Location:

Site #2, grab

8/12/2014 9:47

Sample Collected By:

AA

Date/Time sample collected: Date/Time samples received:

8/12/2014 12:15

Sample Received by:

Amy Jo

Sample Comment:

FC rec'd at 10.8 deg C.

Parameter: Total Suspended Solids Test Result Unite

Test Method

Test Date Test Time 8/14/2014

Tech** SW

Solids, Settleable

3 mg/L

mL/L

220267

SM20 2540 D SM20 2540F

8/12/2014

12:25 SW

123464 Order (D: Sample Location:

Sample Number:

Site #3, grab

8/12/2014 9:52

< 0.1

Sample Collected By:

AΑ

Date/Time samples received:

Date/Time sample collected:

8/12/2014 12:15

Sample Received by:

Amy Jo

Sample Comment:

Parameter:

FC rec'd at 11.5 deg C.

Total Suspended Solids Solids, Settleable

Test Result Units 5 mg/L < 0.1 mL/L **Test Method** SM20 2540 D SM20 2540F

B/14/2014 B/12/2014

Tech** Test Date Test Time SW 12:25 SW

Order ID: Sample Location:

123464

Sample Number: 220258

Site #4, grab

8/12/2014 9:58 8/12/2014 12:15 Sample Collected By:

Data/Time samples received:

Date/Time sample collected:

Sample Received by:

Amy Jo

AA

Sample Comment:

FC rec'd at 10.8 deg C.

Test Method SM20 2540 D Test Date Test Time

Tech**

Solids, Settleable

Test Result Units

8/14/2014

SW

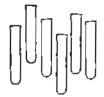
Parameter: **Total Suspended Solids**

3 mg/L mL/L < 0.1

SM20 2540F

8/12/2014

12:25 SW



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Cilent: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

12401

PO#

123464 Order ID:

Sample Number:

Sample Location:

Site #5, grab

Date/Time sample collected:

8/12/2014 10:04 8/12/2014 12:15 Sample Collected By: Sample Received by:

AA Amy Jo

Date/Time samples received: Sample Comment:

FC rec'd at 11.6 deg C.

Parameter:

Order ID:

Test Result Units

Test Method

SM20 2540F

Test Date Test Time 8/12/2014

Tech**

SW

Total Suspended Solids

SM20 2540 D 5 mg/L

220270

8/14/2014

SW

12:25

Solids, Settleable

< 0.1 mL/L

Sample Location:

Site #6, grab

Sample Number:

Sample Collected By:

AA

Date/Time sample collected: Date/Time samples received:

123464

8/12/2014 9:56

Sample Received by:

Amy Jo

Sample Comment:

8/12/2014 12:15 FC rec'd at 15.6 deg C.

Test Method

Test Date Test Time

Tech[⇔]

Total Suspended Solids Solids, Settleable

Units Test Result 4 mg/L < 0.1 mL/L

SM20 2540 D SM20 2540F

8/14/2014 8/12/2014

SW 12:25 SW

Order ID:

Parameter:

123464

Sample Number: 220271

Sample Location:

Site #7, grab

Date/Time sample collected:

8/12/2014 10:35

Sample Collected By:

AΑ

Date/Time samples received:

8/12/2014 12:15

Sample Received by:

Amy Jo

Sample Comment:

Solids, Settleable

Sample Location:

FC rec'd at 14.8 deg C.

Parameter: Total Suspended Solids

Test Result Units 1 mg/L < 0.1

Test Method SM20 2540 D

Test Date Test Time 8/14/2014

Tech** SW

Order ID:

123464

Sample Number: 220272

SM20 2540F

8/12/2014

SW

12:25

Duplicate, Site #3, grab 8/12/2014 9:52

mL/L

Sample Collected By:

AA

Date/Time sample collected: Date/Time samples received:

8/12/2014 12:15

Sample Received by:

Amy Jo

Test Date Test Time

Sample Comment:

FC rec'd at 16.8 deg C.

Parameter:

Teet Reault Units Test Method SM20 2540 D

8/14/2014

sw

Total Suspended Solids Solids, Settleable

2 mg/L < 0.1 mL/L

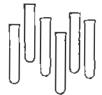
SM20 2540F

8/12/2014

12:25

SW

Tech**



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:	City of Kingston Engine Attn: Alan Adin 420 Broadway Kingston	ers Office	12401		Р	0#	
Order li	D: 123464 S an	nple Number:	220273				
Sample	Location:	Blank-QC					
Date/Tir	me sample collected:	8/12/2014	13:25	Sample Collect	ted By:		
Date/Ti	me samples received:	8/12/2014	13:25	Sample Receiv	red by: Am	ıy Jo	
Sample	Comment:	100 mL of b	uffered rin	se water used			
Parame	eter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Sc	spended Solids	< 1	mg/L	SM20 2540 D	8/14/2014		SW
Solids,	Settleable	< 0.1	mL/L	SM20 2540F	8/12/2014	12:25	SW
Results	nott Win) abk					
Review	ed by: Laboratory Mana	ager, ELAP Lat	ID #1092	4		24 4	
greater time; Ja Detection ND=Not accepta	:= less than; A=Analysis than 0.2 mg/L; D=Elevat =Result estimated below- on Limit; mg/kg=milligram t Detected; NTU=Nephel- ince criteria; SI = Saturati crograms per Liter; umbo	ed reporting lim quantitation limi ns per kilogram ometric Turbidit on Index; SU=S	it; Est=Est t; MCL=No dry weight, y Units; Pt tandard ph	timated Value; H=Sai ew York State Maximi mg/L=milligrams pe (Co=Platinum Cobalt I Units; TON=Thresh	mple received o um Contaminan ir Liter; mU/L=m Units, Q=Not a notd Odor Numb	over analysis hat Level; MDL nillifiters per Li If QC data me per at 44.5 deg	vas nolding =Method iter; ot grees C;

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

Total number of pages in this report, including chain of custody, is _______

does not offer certification for this analyte; "ELAP ID is listed for sub-contract laboratory

SMITH LABO	RATORY			_	СН	AIN	OF CUS	STODY		Login P			
4 Scenic Drive Hude Back NV 12528-1212 Turneround Time: Standard V								Come monet	a to	Amt Du			
Hyde Park, NY 12538-1313 Turnaround Time: Standard V Phone: 845-229-6536 RUSH (Rush surcharge applies)								Copy result Local Healt		Pmt Me			$\neg \neg$
Fax: 845-22		** Date report re						Yes 1		Receipt			
Client Name:	_CITY OF KING	SSTON			Clien	t Phone	No: _845-	334-3968_	Project/F	acility Name: _RO	NDOU	T CREE!	
Mailing Addres	ss: 420 BROAD	WAY			Clien	t Email:	aadin@	kingston-ny.	gov	Location:			
KINGSTON, NY 12401 Copy Report To: _RALPH SWENSON PWS Fed ID No: NY													
LAB USE ONLY	CI	LIENT: COMPLE	TE THE	SAMI	PLE IN	FORM	ATION IN	THE SPAC	E PROVIDED BELOW	-	LA	B USE O	NLY
Order ID No: J3464 Sample No:		lentification & ple Point	Matrix	Grab	Comp # hrs	ne) First Draw	Treatment Type & Residual	Date/Time Sampled S-12 14	Analysis Requested	Container & Preservative	loed Y/N	Sample Temp, Deg C	Pres. st Lab Y/N
2202676	SITE#1		sw	Х				9 381	SS TSS	1-11.PLAS 1-1/2 L PLAS	17	16.4/2	
2(de)	SITE #2		sw	Х				7:47A	SS TSS	1-1LPLAS 1-1/2 L PLAS	0	21.4/20.9	
267	SITE #3		SW	Х				4.52A	SS TSS	1-ILPLAS 1-1/2 L PLAS		18.1	
26%	SITE #4		sw	X				9:58A	SS TSS	I-1LPLAS I-1/2 L PLAS		15.60 160.1	Ш
269	SITE #5		sw	Х				10:044		1-1LPLAS 1-1/2 L PLAS		10.0	
270	SITE #6		sw	Х				7.56A		1-ILPLAS 1-I/2 L PLAS		15.3	
271	SITE #7		SW	X				10:35A.	SS TSS	1-1LPLAS 1-1/2 L PLAS		70.1 H	
1272	DUPLICATE		SW	X				4:52A	SS TSS	I-ILPLAS I-1/2 L PLAS		161	
Sampled By: (Nammy knowledge, I s	e) ALIA AD	sponsible for payment, un	less other p	ayment:	LTRINGE DE	Title) <u>E</u> λ	ON LERW.	Broce by Smith I	I hereby affirm that the	information above is tr	ue and co	implete to th	ne best of
	aby HLAL				Receive	ed By:				Date:		Time:	·
		<u> </u>			Receive	d at Lab	ву: <u>ЖДО</u> (40x		Date 8110	114	Time: 10	115 pm
1	on: NA(Yes)No_	juirements				Country	cnts:	J					
Chemical Preserva	\sim												
Correct Bottle Typ	e (es No_			_	†								
Other						Smith La	boratory Chai	n of Custody R	cv. 4, 2/14 Data F	Leview: Mgr		Date 8	120

Attach nt 1 - Sampling Event Summary Sheet

C-8

RALPH

Date: Av6 18, 2014

Page / of /

Sampling Team:

Initials:

Weather:

KAY SCHEAFEL /

Temperature:

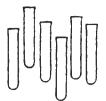
70'5

Direction of Flow:

BUTGOIRS, FIDE (BASTERLY)

DRY WENTHER.

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-ROLDOUT CREEK APPROX. 250 YOS	LATITUDE: 71,900	00 8.1	Grease ANDE	APPROX. 15 YDS WESTERLY OF FLENEY DRY
UPSTREAM OF WILBUR AVE. OUTFALL	CONGITURE: 17,000 (temperature 27,3 c		PEENEY AND RECYCLING BUSINESS // OC ATT
			Odors NEAK	
SITE # 2: MID-ROWGUT CREEK - UPSTREAM	LAT: 41.9/2 LONG: 73.992	DO 7.8	Grease へんんら	50 YDS SOUTHERLY OF ISLAND DOCK
OF BLOCK PARK		temperature 23.4 c	Floatables No No No 2	CAUSEWAY CULVERTS
			Odors NINE	11:12 ATT
SITE #3: MID- RONDOUT CREEK	LAT: 41.915	DO 7.8	Grease NONE	25 YDS SOUTHERLY OF OLD SNEEL
APPROX. 150 YDS UPSTREAM OF OLD	LONG: 73,784	temperature 23.7 c	Floatables NONE	BOILER PROTRUDING FROM WATER NEAR
BRIDGE			Odors NONE	ISCAND DOCK BULKHEAD /1: RE ANY
SITE #6; MID- ROWDOUT CREEK	LAT: 41. 418	DO 7.9	Grease No -U.S	50 YDS SOUTHERLY OF CLEAR WATER
UNDER NEW BRIDGE	LONG: 73.981	temperature 23.72	Floatables べっぷん	MAINTENANCE SHED, DOUBLE SLIDE DOORS
			Odors NONE	11:25 174
0- 10	LAT: 41.913	DO 7.8		TIDE: OUT 50 YDS SOUTHERLY OF STEELHOUSE
APPROX. 200 YDS	LON 6: 73.479	temperature 20.60	Floatables 200	RESTAURANT COURSED PATIO
NEW BRIDGE			Odors DENE	11:30 mm
Andrew Andrew	LAT: 41.922.	DO 7./	Grease NONE	TIDE: OUT
IPSTREAM OF BLOCK	LONG: 73,769	temperature 13.5 C	Floatables べっぷん	50 YDS SOUTHERLY SAS LINE CROSSING WARNING N
PARK			Odors DENG	11236 AM
	LAT; 41, 885	DO 7.1	Crons 420.06	FLOW : ALWAYS EASTERU INSTREAM) - LOCATION
RONGOUT CREEK APPROX. 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT	LONE: 79,030	temperature 23,0 C	Floatables LLCHY	MOTTIDAL. STRAIGHT FROM WESTERLY END BOAT LANNCH
SYSTEL BOAT LAUNCH			Odors NONE	12115 PM
	LAT: 4/.7/3	DO 7.8	Grease NONE	54m 5
DVPLICATE	LONG: 73.477	temperature 23,6°C	Floatables ADDE	51TE 4
51764)			Odors NONE	01100



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123649

Sample Number:

220660

Sample Location:

Site #1, grab

Sample Comment:

FC rec'd at 9.3 deg C

Date/Time sample collected:

8/18/2014 11:00

00

Collected By: R

Ralph Swenson

Date/Time sample received:

8/18/2014

11:00 13:40

16:40

Received by:

Karolina

SS

Date/Time sample analyzed:

8/18/2014

Tech:

Parameter

Test Result*

Units

Test Method

Fecal Coliform

20

CFU/100mL

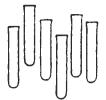
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lak Manager, ELAP Lab ID #10924

21-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 **HYDE PARK, NEW YORK 12538** (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123649

Sample Number:

220661

Sample Location:

Site #2, grab

Sample Comment:

FC rec'd at 10.9 deg C

Date/Time sample collected:

8/18/2014

11:12

Collected By:

Ralph Swenson

Date/Time sample received:

8/18/2014 8/18/2014 13:40 16:40

Received by:

Karolina

Date/Time sample analyzed:

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

10

CFU/100mL

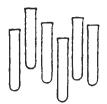
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

21-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123649

Sample Number:

220662

Sample Location:

Site #3, grab

Sample Comment:

FC rec'd at 10.8 deg C

Date/Time sample collected:

8/18/2014 11:20

Collected By:

Ralph Swenson

Date/Time sample received:

8/18/2014

8/18/2014

13:40 16:40 Received by:

Karolina

SS

Date/Time sample analyzed:

Tech:

Karolina

Parameter

Test Result*

Units

Test Method

Fecal Coliform

10

CFU/100mL

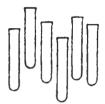
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: ab Manager, ELAP Lab ID #10924

21-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 **HYDE PARK, NEW YORK 12538** (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

12401 NY

PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123649

Sample Number:

220663

Sample Location:

Site #4, grab

Sample Comment:

FC rec'd at 10.6 deg C

Date/Time sample collected:

8/18/2014 11:30

Collected By:

Ralph Swenson

Date/Time sample received:

8/18/2014

8/18/2014

13:40 16:40

Received by:

Karolina

Date/Time sample analyzed:

Tech:

Parameter

Test Result*

Units

Test Method

Fecal Coliform

10

CFU/100mL

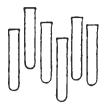
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

ab Maŋager, ELAP Lab ID #10924 Reviewed by:

21-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 **HYDE PARK, NEW YORK 12538** (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123649

Sample Number:

220664

Sample Location:

Site #5, grab

Sample Comment:

FC rec'd at 10.8 deg C

Date/Time sample collected:

8/18/2014

16:40

Collected By:

Ralph Swenson

8/18/2014

8/18/2014

11:36

Received by: Karolina

Date/Time sample received: Date/Time sample analyzed: 13:40

Tech:

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 10

CFU/100mL

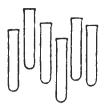
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: (ab Magager, ELAP Lab ID #10924

21-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123649

Sample Number:

220665

Sample Location:

Site #6, grab

Sample Comment:

FC rec'd at 9.4 deg C

Date/Time sample collected:

8/18/2014 11:25

Collected By:

Ralph Swenson

Date/Time sample received:

8/18/2014 8/18/2014 13:40

Received by: Karolina

Date/Time sample analyzed:

16:40

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

30

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

21-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO #

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123649

Sample Number:

220666

Sample Location:

Site #7, grab

Sample Comment:

FC rec'd at 8.9 deg C

Date/Time sample collected:

8/18/2014 12:15

40:45

Collected By:

Ralph Swenson

Date/Time sample received:

8/18/2014

12:15

Received by:

ed by: Karolina

Date/Time sample analyzed:

8/18/2014

16:40

Tech: SS

Test Method

Parameter

Test Result*

Units

Fecal Coliform

< 10

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

21-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123649

Sample Number:

220667

8/18/2014

Sample Location:

Duplicate, Site 4, grab

Sample Comment:

FC rec'd at 9.8 deg C

8/18/2014 11:30

Collected By: Ralph Swenson

Date/Time sample collected: Date/Time sample received:

8/18/2014

13:40

Karolina Received by:

SS

Date/Time sample analyzed:

16:40

Tech:

Parameter

Test Result*

Units

Test Method

Fecal Coliform

20

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

21-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: Ci

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

- - -

Order ID:

123649

Sample Number:

220668

Sample Location:

Blank-QC

Sample Comment:

100 mL buffered rinse water used.

Date/Time sample collected:

8/18/2014 16:40

Collected By:

Date/Time sample received: Date/Time sample analyzed:

8/18/2014

16:40

Received by: Karolina

8/18/2014 16:40

Tech:

SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 1

CFU/100mL

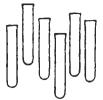
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

21-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Sample Type: **Client Project Name:** Surface Water Rondout Creek

Order comment:

Order ID: 123649

Sample Number: 220660

Sample Location: Date/Time sample collected: Site #1, grab 8/18/2014 11:00

Sample Collected By:

Ralph Swenson

Test Date Test Time

Date/Time samples received

8/18/2014 13:40

Sample Received by: Karolina

Sample Comment: FC rec'd at 9.3 deg C

Test Result Units **Total Suspended Solids** 4 mg/L Solids, Settleable < 0.1 mL/L

SM20 2540 D 8/19/2014 SM20 2540F 8/18/2014

Test Method

SM20 2540F

Test Method

SM20 2540 D

SM20 2540F

SW 13:50 SW

Tech**

Order ID: 123649

Parameter:

Sample Number: 220661

Sample Location: Site #2, grab

Date/Time sample collected: 8/18/2014 11:12 Date/Time samples received 8/18/2014 13:40 Sample Collected By:

Ralph Swenson

Sample Comment:

Solids, Settleable

Sample Location:

FC rec'd at 10.9 deg C

Sample Received by: Karolina

Parameter:

Total Suspended Solids

2

< 0.1

Test Method Test Date Test Time SM20 2540 D 8/19/2014

Tech** SW 13:50 SW

Order ID:

123649

Sample Number: 220662

Test Result

Site #3, grab

mg/L

mL/L

Units

mg/L

mL/L

Sample Collected By:

8/18/2014

13:50

Date/Time sample collected: Date/Time samples received 8/18/2014 11:20 8/18/2014 13:40

Sample Received by:

Ralph Swenson

Sample Comment:

FC rec'd at 10.8 deg C

Karolina

Parameter: Total Suspended Solids

Solids, Settleable

Sample Location:

Test Result Units

3

< 0.1

Test Date Test Time Tech** 8/19/2014 SW 8/18/2014

Order ID:

123649

220663 Sample Number:

Site #4, grab 8/18/2014 11:30

Sample Collected By:

Ralph Swenson

Date/Time sample collected: Date/Time samples received

8/18/2014 13:40

Sample Received by:

Karolina

Sample Comment:

FC rec'd at 10.6 deg C

Test Date Test Time

Parameter:

Test Result Units mg/L

Test Method SM20 2540 D

8/19/2014

Tech** SW SW

SW

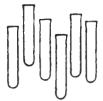
Total Suspended Solids Solids, Settleable

mL/L < 0.1

SM20 2540F

8/18/2014

13:50



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

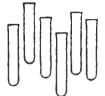
Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Order ID: 123649 Sample Number: 220664 Site #5, grab Sample Location: 8/18/2014 11:36 Ralph Swenson Date/Time sample collected: Sample Collected By: 8/18/2014 13:40 Karolina Date/Time samples received Sample Received by: Sample Comment: FC rec'd at 10.8 deg C Tech** Parameter: **Test Result** Units **Test Method Test Date Test Time Total Suspended Solids** SM20 2540 D 8/19/2014 SW ma/L 13:50 SW mL/L SM20 2540F 8/18/2014 Solids, Settleable < 0.1 Order ID: 123649 Sample Number: 220665 Site #6, grab Sample Location: Date/Time sample collected: 8/18/2014 11:25 Sample Collected By: Ralph Swenson 8/18/2014 13:40 Karolina Date/Time samples received Sample Received by: Sample Comment: FC rec'd at 9.4 deg C **Test Method** Tech** **Test Date Test Time** Parameter: **Test Result** Units 8/19/2014 SW **Total Suspended Solids** 5 mg/L SM20 2540 D < 0.1 SM20 2540F 8/18/2014 13:50 SW Solids, Settleable mL/L Order ID: 123649 220666 Sample Number: Sample Location: Site #7, grab Date/Time sample collected: 8/18/2014 12:15 Sample Collected By: Ralph Swenson Date/Time samples received 8/18/2014 13:40 Sample Received by: Karolina **Sample Comment:** FC rec'd at 8.9 deg C **Test Method Test Date Test Time** Tech** Parameter: **Test Result** Units Total Suspended Solids SM20 2540 D 8/19/2014 SW 2 mg/L 8/18/2014 SW Solids, Settleable < 0.1 mL/L SM20 2540F 13:50 Order ID: 123649 Sample Number: 220667 Sample Location: Duplicate, Site 4, grab

Date/Time sample collected:8/18/201411:30Sample Collected By:Ralph SwensonDate/Time samples received8/18/201413:40Sample Received by:KarolinaSample Comment:FC rec'd at 9.8 deg C

Test Result Units **Test Method Test Date Test Time** Tech** Parameter: 8/19/2014 SW Total Suspended Solids 5 SM20 2540 D mg/L Solids, Settleable < 0.1 SM20 2540F 8/18/2014 13:50 SW mL/L



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

		CERTIFICATE OF ANA	LYSIS
Client:	City of Kingston Engin Attn: Alan Adin 420 Broadway Kingston	eers Office NY 12401	PO#
	ed by: Laboratory Man	/Walke ager, ELAP Lab ID #10924	29-Aug-14

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

Total number of pages in this report, including chain of custody, is

SMITH LABORATORY			СН	AIN	OF CUS	STODY		Login R			
4 Scenic Drive		_	,					Amt Du			
Hyde Park, NY 12538-1313 Turnaround Time						Copy result		Amt Pai			
Phone: 845-229-6536	,		lies)			Local Healt		Pmt Me			
Fax: 845-229-6538 ** Date report re	quested:				 	Yes 1	No [√]	Receipt	No:	-	
Client Name:CITY OF KINGSTON			Clien	t Phone	No: _845-	334-3968	Project/Fac	cility Name: _RO	NDOU	r creek	ζ
Mailing Address: 420 BROADWAY			Clien	t Email:	aadin@	kingston-ny.	gov L	ocation:	TED	•	
KINGSTON, NY 12401			Сору	Report	To: _RAL	PH SWENS	ON PWS Fed I	D No: NY			
	TE THE	SAMP	LE IN	FORM	ATION IN	THE SPAC	E PROVIDED BELOW		LA	B USE O	NLY
Order ID No: 133049 Sample Identification & Sample Point	Matrix	(C)	Check O	re) First Draw	Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
220660 SITE #1	sw	Х				11am	SS TSS	I-ILPLAS I-1/2 L PLAS	1	8.1	1)
22100 PETE #2	SW	Х				11:12	SS TSS	I-ILPLAS I-1/2 L PLAS		(0)	7
22 DOG 21 SITE #3	SW	Х				11:20	SS TSS	I-ILPLAS I-1/2 L PLAS	7	17.8	
20tdo3 SITE#4	SW	Х				11:30	SS TSS	1-1LPLAS 1-1/2 L PLAS	7	14.6	
220664 SITE #5	SW	Х				11:36	SS TSS	1-1LPLAS 1-1/2 L PLAS	1	13.1	
22 0000 SITE #6	SW	Х				11:75	SS TSS	1-1LPLAS 1-1/2 L PLAS	7	9.6	
20066 SITE #7	SW	Х				12:15	SS TSS	1-1LPLAS 1-1/2 L PLAS	B	11.3	
DOUD DUPLICATE (SITA 4)	SW	Х				11:30	SS TSS	1-1LPLAS 1-1/2 L PLAS	7_	11.3	7
22 aus Blank								<u></u>			
Sampled By: (Name) RALPH TWENDOWN my knowledge. I also affirm that I am responsible for payment, un	less other n	ayment	(Title)	Ty En	CINER!	I hereby affirm that the in	nformation above is tru	ae and co	mplete to th	ne best of
Sample Relinquished By: Refl Tower	———	aymon (Dansin	ad Dan			Laboratory.	Date: 8-18	(4	Time: //	40900
Sample Relinquished By:			Receive	ed at Lab	ву:	1 along		Date: 8-18	14	Time:	340
Sample(s) received met the following requirements	2			}	ents:	U					
Thermal Preservation: NA (Yes)No			{	Contin	····ω						
Chemical Preservation NA Yes No											
Correct Bottle Type (Yes) No											
Other				Smith La	boratory Chai	in of Custody R	ev. 4, 2/14 Data Re	view: Mgr		Date (2)

Attach nt 1 - Sampling Event Summary Sheet

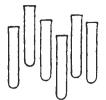
EVENT #21 - DRYMATHER.

Weather: Temperature:

Direction of Flow: Intommy full wisterly low tive 2:57-P

Sampling Location	Time	Field Parameter	Physical Observations				
SITE #1: MID-ROLDOUT CREEK APPROX. 250 YOS	LATITUDE: 41 906	DO	Grease NONE	TIDE: Witcoming westerly,			
DPSTREAM OF WILBUR	LONGITUDE: 74.04	temperature	Floatables NOWE	APPROX.15 YDS WESTERLY OF FEELEY DR. DOCK AT PROPERTY BOUNDARY BETWEEN			
	14:16 A		Odors NONE	FEELEY AND RECYCLING BUSINESS			
SITE # Z: MID-RONCOUT CREEK - UPSTREAM	LAT: 4/9/2 LONG: \$3 997	DO	Grease NOWE	TIDE: Incoming westerry 50 YDS SOUTHERLY OF ISLAND DOCK			
of block park	LONG.	temperature	Floatables NowE	CAUSEWAY CULVERTS			
	11.28A		Odors Now				
SITE #3: MID- RONDOUT CREEK	LAT: 41.915	DO	Grease NOWF	25 YDS SOUTHERLY OF OLD STEEL			
APPROX. 150 YDS UPSTREAM OF OLD	LONG: 73984	temperature	Floatables NONE	BAILER PROTRUDING FROM WATER NEAR			
BRIDGE	11:374		Odors NONE	ISLAND DOCK BULKHEAD			
SITE #6; MID- ROMDOUT CREEK	LAT: 41915	DO	Grease NUME	50 YDS SOUTHERLY OF CLEARWATER			
UNDER NEW BRIDGE	LONG: 73981	temperature	Floatables NONE	MAINTENANCE SHED, DOUBLE SLIDE DOORS			
			Odors NONE				
SITE #4: MID - PONDOUT CREEK	LAT: 41 9/3 LONG: 73 4 79	DO	Grease NoNE	50 yos southere FSTEELHOUSE			
111127. 200 107		temperature	Floatables NOWE	RESTAURANT COURT PATIO			
NEW BRIDGE			Odors NONE				
RONDONT CREEK	LAT: 4/922 LONG: 73.969	DO	Grease NONE	50 YDS SOUTHERLY GAS LINE			
UPSTREAM OF BLOCK		temperature	Floatables MIM mal	CROSSING WARNIN IGN			
PARK	11.574		Odors NONE	regetative dela.			
SITE # 7: MID - ROMONT CREEK APPROX.	LAT: 41.885	DO	Grease NONE	FLOW: ALWAYS EASTERLY (DOWN STREAM) - LOCATION MOTTIDAL. STRAIGHT OUT FROM WESTERLY			
3/4 MILE UPSTREAM OF EDDYVILLE DAM AT	LONE: 74 630	temperature	Floatables min, mail	END BOAT LAUNCH			
NYSDEL BOAT LAUNCH	2:280		Odors # NONE	vegetative debilis			
D.10.1.1.	LAT! SITE 5	DO	Grease NONE	SITE #5"			
DUPLI CATE	The Contract of the Contract o	temperature	Floatables NOW,	21 16 7 7			
	1).574		Odors NOWE				





ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123905

Sample Number:

221164

Sample Location:

Site #1, grab

Sample Comment:

FC rec'd at 4.4 deg C.

Date/Time sample collected:

8/26/2014

16 Collected By:

Alan Adin

Date/Time sample received:

8/26/2014

8/26/2014

11:16

Received by: Amy Jo

Date/Time sample analyzed:

14:30 17:00

Tech:

SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

30

CFU/100mL

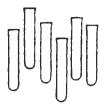
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

28-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO #

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123905

Sample Number:

221165

Sample Location:

Site #2, grab

Sample Comment:

FC rec'd at 5.1 deg C.

Date/Time sample collected:

8/26/2014

11:28

Collected By:

: Alan Adin Amy Jo

Date/Time sample received: Date/Time sample analyzed:

8/26/2014 8/26/2014 14:30 17:00

Received by:

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

40

CFU/100mL

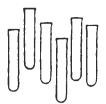
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

28-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123905

Sample Number:

221166

Sample Location:

Site #3, grab

Sample Comment:

FC rec'd at 5.9 deg C.

Date/Time sample collected:

8/26/2014

11:37 Collected By: Alan Adin

Date/Time sample received:

8/26/2014

8/26/2014

14:30

Received by:

Amy Jo

SS

Date/Time sample analyzed:

17:00

Tech:

Test Method

Parameter

Test Result*

Units

Fecal Coliform

20

CFU/100mL

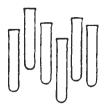
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

28-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Order ID:

Surface Water

Order comment:

123905

Sample Number:

221167

Sample Location:

Site #4, grab

oumpio coodition.

FC rec'd at 7.5 deg C.

Sample Comment:

o lec d at 7.5 deg O.

8/26/2014

11:48

Collected By:

Alan Adin

Date/Time sample collected: Date/Time sample received: Date/Time sample analyzed:

8/26/2014 8/26/2014

14:30 17:00 Received by:

Amy Jo SS

Parameter

Tech:

Test Method

Fecal Coliform

Test Result*

Units CFU/100mL

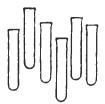
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

28-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston 12401 PO #

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID: 123905

Sample Number:

221168

Sample Location:

Site #5, grab

Sample Comment:

FC rec'd at 8.8 deg C.

Date/Time sample collected:

8/26/2014

11:57

Collected By:

Alan Adin

Date/Time sample received:

8/26/2014 8/26/2014 14:30

Received by:

Amy Jo

SS

Date/Time sample analyzed:

17:00

Tech:

Parameter

Test Result*

Units

Test Method

Fecal Coliform

70

CFU/100mL

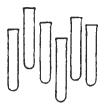
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Mariager, ELAP Lab ID #10924

28-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123905

Sample Number: Sample Location:

221169

Comple Comments

Site #6, grab FC rec'd at 6.7 deg C.

Sample Comment:

To reculation degic.

Date/Time sample collected:

8/26/2014

11:43

Collected By:

Alan Adin Amy Jo

Date/Time sample received: Date/Time sample analyzed:

8/26/2014 8/26/2014 14:30 17:00 Received by: Tech:

SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

70

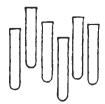
CFU/100mL SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: kab Manager, ELAP Lab ID #10924

28-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID: 123905

Sample Number:

Sample Location:

221170 Site #7, grab

50 N A 40 T I O

Sample Comment:

FC rec'd at 10.7 deg C.

Date/Time sample collected:

8/26/2014

12:28

Collected By:

Alan Adin

Date/Time sample received:

8/26/2014

8/26/2014

14:30

Received by:

Amy Jo

SS

Date/Time sample analyzed:

14

14:30 17:00

Tech:

Fecal Coliform

Parameter

Test Result*

Units

Test Method

recai Collionni

< 10

CFU/100mL

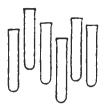
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

28-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: C

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

123905

Sample Number:

221171

Sample Location:

Duplicate, grab

Sample Comment:

FC rec'd at 6.8 deg C.

Date/Time sample collected:

8/26/2014

11:57

Collected By:

Alan Adin

Date/Time sample received: Date/Time sample analyzed:

8/26/2014 8/26/2014 14:30 17:00 Received by:

Amy Jo SS

Parameter

Test Result*

Units

Tech:

Test Method

Fecal Coliform

60

CFU/100mL

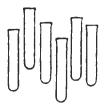
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed l(y: Lab Manager, ELAP Lab ID #10924

28-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

123905

Sample Number:

221172

Sample Location:

Blank-QC

Sample Comment:

100 mL buffered rinse wate used.

17:00

17:00

Date/Time sample collected:

8/26/2014

17:00 Collected By:

Date/Time sample received:

8/26/2014

R

Received by: Amy Jo

Date/Time sample analyzed:

8/26/2014

Tech:

ch: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 1

CFU/100mL

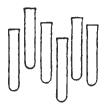
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

28-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 **HYDE PARK, NEW YORK 12538** (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

VRI Environmental

PO Box 943

Millbrook

12545

PO#

Client Project Name:

Vandenburg Cove South

Sample Type:

Wastewater

Order comment:

123920

Order ID:

Sample Number: Sample Location: 221209 Final/TCl2=1.2 ppm

FC rec'd at 21.3 deg C.

Sample Comment: Date/Time sample collected:

8/26/2014

14:25

Collected By:

Date/Time sample received:

8/26/2014

15:10

CQ Received by:

Amy Jo

Date/Time sample analyzed:

8/26/2014

17:00

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 20

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

28-Aug-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

PO #

Alan Adin

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston NY 12401

Sample Type:

Surface Water Rondout Creek Client Project Name:

Order comment:

123905 Order ID: Sample Number: 221164

Site #1, grab Sample Location:

8/26/2014 11:16 Date/Time sample collected: Sample Collected By: Alan Adin Date/Time samples received 8/26/2014 14:30 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 4.4 deg C.

Parameter: Test Result Units **Test Method** Test Date Test Time Tech** Solids, Settleable < 0.1 8/26/2014 mL/L SM20 2540F 16:40 LAE Total Suspended Solids SM20 2540 D 2 mg/L 8/27/2014 SW

Order ID: 123905 Sample Number: 221165

Sample Location: Site #2, grab

8/26/2014 11:28 Date/Time sample collected: Sample Collected By: Alan Adin Date/Time samples received 8/26/2014 14:30 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 5.1 deg C.

Parameter: Test Result Units **Test Method** Test Date Test Time Tech** Solids, Settleable < 0.1 SM20 2540F mL/L 8/26/2014 16:40 LAE Total Suspended Solids mg/L SM20 2540 D 8/27/2014 SW

Order ID: 123905 Sample Number: 221166

Sample Location: Site #3, grab Date/Time sample collected: 8/26/2014 11:37 Date/Time samples received

8/26/2014 14:30 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 5.9 deg C.

Parameter: Test Result Units **Test Method** Test Date Test Time Tech** Solids, Settleable < 0.1 mL/L SM20 2540F 8/26/2014 16:40 LAE Total Suspended Solids SM20 2540 D mq/L 8/27/2014 SW

Sample Collected By:

123905 Order ID: Sample Number: 221167

Sample Location: Site #4, grab

Date/Time sample collected: 8/26/2014 11:48 Sample Collected By: Alan Adin Date/Time samples received 8/26/2014 14:30 Sample Received by: Amy Jo

FC rec'd at 7.5 deg C. Sample Comment:

Parameter: Test Result Units **Test Method** Test Date Test Time Tech** Solids, Settleable < 0.1 mL/L SM20 2540F 8/26/2014 16:40 LAE Total Suspended Solids SM20 2540 D mg/L 8/27/2014 SW



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Order ID: 123905 Sample Number: 221168

Sample Location: Site #5, grab

Date/Time sample collected: 8/26/2014 11:57 Sample Collected By: Alan Adin Date/Time samples received 8/26/2014 14:30 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 8.8 deg C.

Units Test Date Test Time Tech** Parameter: Test Result **Test Method** 16:40 Solids, Settleable < 0.1 mL/L SM20 2540F 8/26/2014 LAE SW Total Suspended Solids 11 mg/L SM20 2540 D 8/27/2014

Order ID: 123905 Sample Number: 221169

Sample Location: Site #6, grab

Date/Time sample collected:8/26/201411:43Sample Collected By:Alan AdinDate/Time samples received8/26/201414:30Sample Received by:Amy Jo

Sample Comment: FC rec'd at 6.7 deg C.

Parameter: Test Result Units **Test Method** Test Date Test Time Tech** Solids, Settleable < 0.1 mL/L SM20 2540F 8/26/2014 16:40 LAE Total Suspended Solids mg/L SM20 2540 D 8/27/2014 SW

Order ID: 123905 Sample Number: 221170

Sample Location: Site #7, grab

Date/Time sample collected:8/26/201412:28Sample Collected By:Alan AdinDate/Time samples received8/26/201414:30Sample Received by:Amy Jo

Sample Comment: FC rec'd at 10.7 deg C.

Parameter: Test Result Units Test Method Test Date Test Time Tech** Solids, Settleable < 0.1 mL/L SM20 2540F 8/26/2014 16:40 LAE Total Suspended Solids SM20 2540 D 8/27/2014 SW 2 mg/L

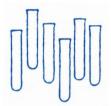
Order ID: 123905 Sample Number: 221171

Sample Location: Duplicate, grab

Date/Time sample collected: 8/26/2014 11:57 Sample Collected By: Alan Adin Date/Time samples received 8/26/2014 14:30 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 6.8 deg C.

Parameter: Test Result Units **Test Method** Test Date Test Time Tech** Solids, Settleable < 0.1 mL/L SM20 2540F 8/26/2014 16:40 LAE Total Suspended Solids mg/L SM20 2540 D 8/27/2014 SW



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:	City of	Kingston	Engineers	Office
---------	---------	----------	-----------	--------

Attn: Alan Adin 420 Broadway

12401 PO # Kingston

123905 Order ID:

Sample Number: 221172

Sample Location:

Blank-QC

Date/Time sample collected:

8/26/2014 17:00

Sample Collected By:

Date/Time samples received

8/26/2014 17:00

Sample Received by: Amy Jo

Sample Comment:

100 mL buffered rinse water used.

Parameter: Solids, Settleable Test Result Units < 0.1 mi /i

Test Method SM20 2540F

Test Date Test Time 8/26/2014 16:40

Tech** LAE

Total Suspended Solids

mg/L SM20 2540 D 8/27/2014

SW

Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

17-Sep-14

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

Total number of pages in this report, including chain of custody, is

							OF CUS	STODY		Login R		4	/	
4 Scenic Drive Hyde Park, NY 12538-1313 Phone: 845-229-6536 Fax: 845-229-6538 Turnaround Time: Standard RUSH (Rush surcharge ** Date report requested:											Amt Due: Amt Paid: Pmt Method: Receipt No:			
Client Name:CITY OF KINGSTON					Client Phone No: _845-334-3968 Project/Facility Na									
nalling Addres	s: 420 BROADWA'KINGSTON, NY								gov I ON PWS Fed					
AB USE ONLY	CLIE	NT: COMPLE	TE THE	SAMI	LE IN	FORM	ATION IN	THE SPAC	E PROVIDED BELOW		LA	B USE OF	VLY	
Order ID No: 3905 Sample No:	Sample Identii Sample P		Matrix	Grab	Check O	First	Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N	
231164918	SITE #1		sw	x	# hrs	Draw		11:16A	cc	1-1LPLAS 1-1/2 L PLAS	7	21.9	N	
1165AB	SITE #2		sw	Х				11:28A	SS	1-1LPLAS 1-1/2 L PLAS		20:40	1	
1166	SITE #3		sw	X				11:37A	SS TSS	I-ILPLAS I-1/2 L PLAS		199/42		
1167	SITE #4		sw	X				11:48A	SS TSS	1-ILPLAS 1-1/2 L PLAS		2.450		
1168	SITE #5		sw	Х				11:57A	SS TSS	1-1LPLAS 1-1/2 L PLAS		18/18		
1169	SITE #6		sw	Х				11:43A	SS TSS	1-1LPLAS 1-1/2 L PLAS		1501/83		
1170	SITE #7		sw	Х				12:287	SS TSS	1-1LPLAS 1-1/2 L PLAS		6.86.2		
1171)	DUPLICATE		sw	X				11:57A	SS TSS	1-1LPLAS 1-1/2 L PLAS		23/10	1	
										,				
ampled By: (Nam ny knowledge. I a	e) ALAN ANIN Iso affirm that I am respon	sible for payment, ur	nless other p	payment :	arrangeme	Title) <u>EA</u> ents are ap	proved in adv	G. TECH	I hereby affirm that the Laboratory.	information above is tr	ue and co	omplete to th	e best of	
ample Relinquishe	d By: AZAN AS	DIN.			Receive	ed By:		Sp		Date:	21/11/	Time:	1 29	
ample Relinquishe					Receive	d at Lab	Ву:	PA		Date:	-417			
	on: NA Yes No	ments				Comm	ents:					l	430	
Chemical Preserva				1,51										
Correct Bottle Typ						-							0	
Other						Carlet V	L	n of Custody R	4 2/14 Det D	eview: Mgr	7	Date 9	8	

EVENT #22 - DRY WEATHER.

Initials:

Sampling Team:

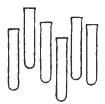
Weather:

RAY SCHOOLE SUMWY

Temperature:

Direction of Flow:

Sampling Location	Time	Field Parameter	Physical Observations				
SITE #1: MID-ROWDOUT CREEK APPROX. 250 YOS	LATITUDE: 41,406	DO 12.5	Grease No N E	TIDE: DUTGOIDE			
DOSTREAM OF WILBUR	LONGITURE: - 74.007	temperature 21.7 c	Floatables LICKY	APPROX.15 YDS WESTERLY OF FLEMEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN			
A12;001.11-1	1		Odors NONE	SEEMEY AND RECYCLING BUSINESS			
SITE #2: MID-RONGOT CREEK - UPSTREAM	LAT: 41,912	DO /2.1	Grease Nove	50 YDS SOUTHERLY OF ISLAND DOCK			
OF BLOCK PARK	LONG: -73.997	temperature 16.7°C		CAUSEWAY CULVERTS			
			Odors News	12:18PM			
SITE #3: MID-	LAT: 44,916	DO 11.1	Grease Voo 2	TIDE: OUT CO.OL			
	LONG: ~73.981	temperature 16.6 C	Floatables New Fee	25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEAR			
UPSTREAM OF OLD BRIDGE			Odors No.NZ	ISLAND DOCK BULKHEAD			
. 0.	LAT: 46916	DO /0,4	Grease 20002	TIDE: CUTCOINE			
ROMDOUT CREEK UNDER NEW BRIDGE	LONG; -73.950	temperature 27.8 c	Floatables LICHT	50 YDS SOUTHERLY OF CLEARWATER MAINTENANCE SHED . 3LE SLIDE DOORS			
			Odors DENE	12:30 1-4			
	LAT: 41.7.3	DO /0.8	Grease Obu	TIDE : COMERIAL STEELHOUSE			
MIT ROX. 200 707	LON 6: 73, 429	temperature 24.2-	Floatables مع مدر	50 YDS SOUTHERLY STEELHOUSE RESTAURANT COMER PATIO			
NEW BRIDGE			Odors 202K	12:331			
SITE #5: MID-	LAT: 41,922	DO 9.7		TIDE: EUTE . TO			
RONDONT CREEK UPSTREAM OF BLOCK	LONG: 23,769	temperature 24.3°c		50 YDS SOUTHERLY GAS LINE CROSSING WARNINI SN			
PARK			Odors NONE	11: -CO AM			
	LAT: 41, 855	po 9.3	Cenara A'C'A'A	FLOW: ALWAYS EASTERLY (DOWN STREAM) - LOCAT			
	LON6: -74.030			MOTTIDAL. STRAIGHT OUT FROM WESTERLY EAD BOAT LAVNCH			
EDDYVILLE DAM AT NYSDEL BOAT LAUNCH		tomporatore to the	Odors DONE	1:11 PM			
	1 041 6 1	DO 18.4	Grease Nove				
		temperature 15.8 <		JITA, 6			
PREGREGATION			Odors NONE	12230 pm			



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

12401 PO# Kingston NY

Client Project Name:

Twaalfskill Brook Sample Type: Surface Water

Order comment:

Order ID: 124225

221790 Sample Number:

Sample Location: SP4

Rec'd at 9.4 deg C Sample Comment:

Date/Time sample collected: 9/5/2014 13:33 Collected By: Alan Adin Date/Time sample received: 9/5/2014 15:20 Received by: Karolina 9/5/2014 Date/Time sample analyzed: 17:15 Tech: SS

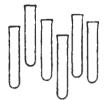
Test Result* Units **Test Method Parameter** Fecal Coliform 1,900 CFU/100mL SM 18 9222D

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

11-Sep-14

^{*}Bacteriological test results are expressed as Colony Forming Units.



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

124223

Sample Number:

221776

Sample Location:

Site #1, grab

Sample Comment:

FC rec'd at 11.4 deg C

Date/Time sample collected:

9/5/2014

12:07

Collected By:

Ralph Swenson

Date/Time sample received:

9/5/2014

15:20

Received by:

Karolina

SS

Date/Time sample analyzed:

9/5/2014

17:15

Tech:

Parameter

Test Result*

Units

Test Method

Fecal Coliform

30

CFU/100mL

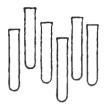
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

124223

Sample Number:

221777

Sample Location:

Site #2, grab FC rec'd at 11.4 deg C

Sample Comment:

Cleca at 11.4 deg C

Date/Time sample collected:

9/5/2014 12:18

Detelline annual manifessal.

14 15:20

Collected By:

Ralph Swenson

Date/Time sample received:

9/5/2014

Received by:

Karolina

Date/Time sample analyzed:

9/5/2014

17:15

ceived by: Karolin

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 10

CFU/100mL

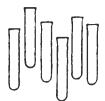
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 **HYDE PARK, NEW YORK 12538** (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

PO# Kingston NY 12401

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

124223

Sample Number:

221778

Sample Location:

Site #3, grab

Sample Comment:

FC rec'd at 6.1 deg C

Date/Time sample collected:

9/5/2014 12:24

Collected By:

Ralph Swenson

Date/Time sample received:

9/5/2014

15:20

Received by: Karolina

Date/Time sample analyzed: 9/5/2014 17:15 Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

50

CFU/100mL

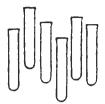
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Lab Manager, ELAP Lab ID #10924 Reviewed by

09-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 **HYDE PARK, NEW YORK 12538** (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID: 124223

Sample Number:

221779

Sample Location:

Site #4, grab

Sample Comment:

FC rec'd at 8.3 deg C

Date/Time sample collected:

9/5/2014 12:33

Collected By:

Ralph Swenson

Date/Time sample received:

9/5/2014

15:20

Received by: Karolina

Date/Time sample analyzed:

9/5/2014

17:15

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

10

CFU/100mL

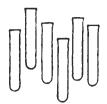
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Lab Mahager, ELAP Lab ID #10924 Reviewed by

09-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 **HYDE PARK, NEW YORK 12538** (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID: 124223

Sample Number:

221780 Site #5, grab

Sample Location:

FC rec'd at 9.7 deg C

Sample Comment:

Date/Time sample collected:

9/5/2014 12:40

Collected By:

Ralph Swenson

Date/Time sample received: Date/Time sample analyzed: 9/5/2014 9/5/2014

15:20 17:15 Received by: Karolina

Tech:

Parameter

Test Result*

Units

Test Method

Fecal Coliform

80

CFU/100mL

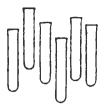
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

09-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 **HYDE PARK, NEW YORK 12538** (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID: 124223

Sample Number:

221781

Sample Location:

Site #6, grab

9/5/2014

FC rec'd at 10.9 deg C

Sample Comment:

Date/Time sample collected:

9/5/2014 12:30

15:20

Collected By: Received by:

Ralph Swenson

Date/Time sample received:

9/5/2014

Karolina

Date/Time sample analyzed:

17:15

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

10

CFU/100mL

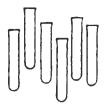
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO #

Client Project Name: Rondout Creek

Sample Type: Surface Water

Order comment:

Order ID: 124223

Sample Number: 221782
Sample Location: Site #7, grab

Sample Comment: FC rec'd at 10.6 deg C

Date/Time sample collected: 9/5/2014 13:15 Collected By: Ralph Swenson

Date/Time sample received:9/5/201415:20Received by:KarolinaDate/Time sample analyzed:9/5/201417:15Tech:SS

 Parameter
 Test Result*
 Units
 Test Method

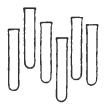
 Fecal Coliform
 < 10</td>
 CFU/100mL
 SM 18 9222D

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Sep-14

^{*}Bacteriological test results are expressed as Colony Forming Units.



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID: 124223

Sample Number: 221783

Sample Location: Duplicate Site #6, grab
Sample Comment: FC rec'd at 9.6 deg C

Date/Time sample collected: 9/5/2014 12:30 Collected By: Ralph Swenson

Date/Time sample received:9/5/201415:20Received by:KarolinaDate/Time sample analyzed:9/5/201417:15Tech:SS

 Parameter
 Test Result*
 Units
 Test Method

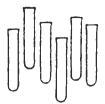
 Fecal Coliform
 50
 CFU/100mL
 SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Vab Manager, ELAP Lab ID #10924

09-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 **HYDE PARK, NEW YORK 12538** (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

124223

Sample Number:

221784

Sample Location:

Blank-QC

Sample Comment:

100 mL of buffered rinse water used.

Date/Time sample collected:

9/5/2014 17:15 Collected By:

17:15

Date/Time sample received:

9/5/2014

Received by:

Date/Time sample analyzed:

9/5/2014 17:15

Karolina Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 1

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Sep-14

Attach nt 1 - Sampling Event Summary Sheet

Initials:

DIZ/WEATHER

Date: 9, 9 / 4 Page of ____

Sampling Team: A. A. ... / Ray Scheffe)

Weather: Avth John

_____Temperature:

tow 702

Direction of Flow: in westerly

4164 TIDE 2.3 Pm

Sampling Location	Time	Field Parameter	Physical Observations	Comments			
SITE#1: MID-RONDOUT CREEK APPROX. 250 YOS	LATINGE: 41.906	DO 8.7 my/L	Grease NEAL	TIDE: M WESTER!			
UPSTREAM OF WILBUR	LONGITUDE: 74 004	temperature 26.2°C	Floatables NCAF2	APPROX.15 YDS WESTERLY OF FLENEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN			
	11:42 A	3	Odors NEWL	FEEDEY AND RECYCLING BUSINESS			
SITE # Z: MID-RONCOUT CREEK - UPSTREAM	LAT: 41912	DO 9.2 mg/L.	Grease None	50 YDS SOUTHERLY OF ISLAND DOCK			
of Block Park	LONG: 73 992	temperature Z4.0 C	Floatables "One	CAUSEWAY CULVERTS			
	1) 55A		Odors None				
SITE #3: MID - RONDAUT CREEK	LAT: 41915	DO 8.6 mg/L	Grease NOME	TIDE: un western			
APPROX. 150 YOS IPSTREAM OF OLD	12 02P	temperature 24 4 C	Floatables NOWE	25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEAR			
BRIDGE			Odors NONE	ISLAND DOCK BULKHEAD			
SITE #6; MID- RONDOUT CREEK	LAT: 41914 LONG: 73.98	DO 8 1 mg/L	Grease NoxuE	50 YDS SOUTHERLY OF CLEARWATER			
INDER NEW BRIDGE		temperature 24.1 ~	Floatables WONE.	MAINTENANCE SHED, DOUBLE SLIDE DOORS			
			Odors NOWE				
RONDOUT CREEK	LAT: 41913 LONG: 73979 121tp	DO 7.7 my/L	Grease ATONE	TIDE: Inwestery 50 yps southerny of steelhouse			
APPROX, ZOO YDS		temperature 24.2 C	Floatables/i TAE	RESTAURANT CONFRED PATIO			
NEW BRIDGE			Odors NEWE.				
SITE #5: MID- RONDONT CREEK	LAT: A1,922 LONG: 73.969 2:15P	DO 7.7 mg/c	Grease Nome	TIDE: IM WEST			
PSTREAM OF BLOCK		temperature 24;2°C	Floatables JULINOR	SO YOS SOUTHERLY I GAS LIME CROSSING WARNING IGN			
ARK			Odors NONE	WEGETATINE DER US - FLOATING.			
SITE # 7: MID -	LAT: 41355 LONG: 74030 12:50P	DO 6.6. 7/L.	Grease N'LUE	FLOW: ALWAYS EASTERLY DUNNSTREAM) - LOCATION NOT TIDAL. STRAIGHT IT FROM WESTERLY			
3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NYSDEC BOAT LAUNCH		temperature Z4.2°C	Floatables NOWE	END BOAT LAVNCH			
			Odors NONE				
	LAT!	DO	Grease				
DVPLI CATE	LONGI SINE #7	temperature	Floatables	SITE#7.			
THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM			Odors				



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PQ#

Cilent Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

124289

Sample Number:

221914

Sample Location:

Site #1, grab

Sample Comment:

FC rec'd at 8.3 deg C

Date/Time sample collected:

9/9/2014 11:42

Collected By:

Alan Adin

Date/Time sample received:

9/9/2014

14:30

r: Karolina h: SS

Date/Time sample analyzed:

9/9/2014 17:00

Received by: Tech:

Parameter

Test Result*

Units

Test Method

Fecal Coliform

70

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

13-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

Order ID: 124289

Sample Number:

221915 Site #2, grab

Sample Location: Sample Comment:

FC rec'd at 6.4 deg C

Date/Time sample collected:

9/9/2014 11:55

Collected By:

Alan Adin Karolina

Date/Time sample received: Date/Time sample analyzed:

9/9/2014 9/9/2014 14:3D 17:00 Received by: F

SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

20

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

13-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

124289

Sample Number:

221916

Sample Location:

Site #3, grab

Sample Comment:

FC rec'd at 10.3 deg C

Date/Time sample collected:

12:02

Collected By:

Alan Adin

Date/Time sample received:

9/9/2014

Received by:

Karolina

Date/Time sample analyzed:

9/9/2014 9/9/2014 14:30 17:00

Tech: SS

Test Method

Parameter Fecal Coliform Test Result*

Units

SM 18 9222D

30

CFU/100mL

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

13-Sep-14

^{*}Bacteriological test results are expressed as Colony Forming Units.



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

124289

Sample Number:

221917

Sample Location:

Site #4, grab

Sample Comment:

FC rec'd at 10.7 deg C

Date/Time sample collected:

9/9/2014 12:10

Collected By:

Alan Adin

Date/Time sample received:

9/9/2014 14:30

Received by:

Karo∤ina

Date/Time sample analyzed:

9/9/2014 17:00

Tech: SS

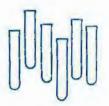
Parameter Fecal Coliform Test Result* 40 Units CFU/100mL Test Method SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

13-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

124289

Sample Number:

221918

9/9/2014

Sample Location:

Site #5, grab

Sample Comment:

FC rec'd at 8.3 deg C

Date/Time sample collected:

12:18

Collected By:

Alan Adin

SS

Date/Time sample received:

9/9/2014

14:30

Received by:

Karolina

Date/Time sample analyzed:

9/9/2014 17:00 Tech:

Test Method

Parameter Fecal Coliform Test Result* 40

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

13-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

12401 PQ# Kingston NY

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

124289

Sample Number:

221919

Sample Location:

Site #6, grab

Sample Comment:

FC rec'd at 9.3 deg C

Date/Time sample collected:

9/9/2014 12:07 Collected By:

Alan Adin

Date/Time sample received:

9/9/2014 14:30

Received by: Karolina

Date/Time sample analyzed:

9/9/2014 17:00

Tech: SS

Test Method

Parameter Fecal Coliform Test Result* 10

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units:

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

13-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6538

CERTIFICATE OF ANALYSIS

Cilent: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston NY 12401

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

124289

Sample Number:

221920

Sample Location:

Site #7, grab

Sample Comment:

FC rec'd at 15.1 deg C

Date/Time sample collected:

12:50

Collected By:

Alan Adin

Date/Time sample received:

9/9/2014 9/9/2014

Karolina

Date/Time sample analyzed:

14:30

Received by:

9/9/2014 17:00 Tech: SS

PO#

Test Method

Parameter Fecal Coliform Test Result* < 10

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

: Lab Manager, ELAP Lab ID #10924

13-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC ORIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401

PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

124289

Sample Number:

221921

Sample Location:

Duplicate, Site #7, grab

Sample Comment:

FC rec'd at 15.8 deg C

Date/Time sample collected:

12:50

Collected By:

Alan Adin

Date/Time sample received:

9/9/2014

9/9/2014

14:30

Received by:

Karolina

Date/Time sample analyzed:

9/9/2014

17:00

Tech: SS

Test Method

Parameter Fecal Coliform Test Result* < 10

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

13-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

Y 12401

PO#

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

124289

Sample Number:

221922

Sample Location:

Blank QC

Sample Comment:

100 mL buffered rinse water used

17:00

Date/Time sample collected:

9/9/2014

17:00 Collected By:

Date/Time sample received:

9/9/2014

17:00 R

Received by: Karolina

Date/Time sample analyzed:

9/9/2014

Tech: SS

Test Method

Parameter Fecal Coliform Test Result*

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

13-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Sample Type:

Surface Water

Client Project Name:

Rondout Creek

Order comment:

Order ID: 124289

221914 Sample Number:

Sample Location:

Site #1, grab

Date/Time sample collected:

9/9/2014 11:42

Sample Collected By:

Alan Adin

Date/Time samples received:

9/9/2014 14:30 Sample Received by:

Karolina

Sample Comment:

FC rec'd at 8.3 deg C

Parameter: Solids, Settleable Total Suspended Solids **Test Result** Units < 0.1 mL/L

Test Method SM20 2540F

Test Date Test Time 9/9/2014

Tech** SW

15:10

Date/Time sample collected:

Date/Time samples received:

mg/L

SM20 2540 D

9/10/2014

SW

Order ID: 124289 Sample Number: 221915

Sample Location:

Site #2, grab

9/9/2014 11:55 9/9/2014 14:30

Sample Collected By: Sample Received by:

Alan Adin Karolina

Sample Comment:

FC rec'd at 6.4 deg C

Parameter: Solids, Settleable Total Suspended Solids Test Result Units < 0.1mL/L 2 mg/L

Test Method SM20 2540F SM20 2540 D

Test Date Test Time 9/9/2014 9/10/2014

Tech** 15:10 SW SW

Order ID:

124289

Sample Number; 221916

Sample Location:

Site #3, grab

Date/Time sample collected: Date/Time samples received:

9/9/2014 12:02 9/9/2014 14:30

Sample Collected By: Sample Received by:

Alan Adin Karolina

Sample Comment:

FC rec'd at 10.3 deg C

2

mg/L

Parameter: Solids, Settleable Total Suspended Solids Test Result Unite < 0.1 mL/L

Test Method SM20 2540F SM20 2540 D

Test Date Test Time 9/9/2014 9/10/2014

Tech** 15:10 \$W SW

Order ID: 124289

Sample Number: 221917 Site #4, grab

Sample Location: Date/Time sample collected: Date/Time samples received:

9/9/2014 12:10 9/9/2014 14:30 Sample Collected By: Sample Received by:

Alan Adin Karolina

Sample Comment:

FC rec'd at 10.7 deg C

Parameter: Solids, Settleable

Total Suspended Solids

Test Result Units mL/L < 0.1 5 mg/L **Test Method** SM20 2540F SM20 2540 D

Test Date Test Time 9/9/2014 9/10/2014

Tech** 15:10 SW

SW



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

12401

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY

PQ#

Order ID: 124289 Sample Number: 221918 Sample Location: Site #5, grab Date/Time sample collected: 9/9/2014 12:18 Sample Collected By: Alan Adin Date/Time samples received: 9/9/2014 14:30 Sample Received by: Karolina Sample Comment: FC rec'd at 8.3 deg C Unita Test Date Test Time Tech** Parameter: Test Result **Test Method** 9/9/2014 Solids, Settleable < 0.1 mL/L SM20 2540F 15:10 SW Total Suspended Solids SM20 2540 D 9/10/2014 SW 2 mg/L Order ID: 124289 Sample Number: 221919 Sample Location: Site #6, grab Date/Time sample collected: 9/9/2014 12:07 Sample Collected By: Alan Adin Date/Time samples received: 9/9/2014 14:30 Karolina Sample Received by: Sample Comment: FC rec'd at 9.3 deg C Parameter: Test Result Units **Test Method** Test Date Test Time Tech** Solids, Settleable < 0.1 9/9/2014 SM20 2540F SW mL/L 15:10 Total Suspended Solids SM20 2540 D 9/10/2014 SW mg/L Order ID: 124289 221920 Sample Number: Sample Location: Site #7, grab Date/Time sample collected: 9/9/2014 12:50 Sample Collected By: Alan Adin Date/Time samples received: 9/9/2014 14:30 Sample Received by: Karolina Sample Comment: FC rec'd at 15.1 deg C Parameter: Test Date Test Time Test Result Units **Teet Method** Tech** Solids, Settleable < 0.1 SM20 2540F 9/9/2014 mL/L 15:10 SW Total Suspended Solids mg/L SM20 2540 D 9/10/2014 SW Order ID: 124289 221921 Sample Number: Sample Location: Duplicate, Site #7, grab Date/Time sample collected: 9/9/2014 12:50 Sample Collected By: Alan Adin 14:30 Date/Time samples received: 9/9/2014 Sample Received by: Karolina Sample Comment: FC rec'd at 15.8 deg C Parameter: Test Result Units **Test Method** Test Date Test Time Tech** Solids, Settleable < 0.1 mL/L SM20 2540F 9/9/2014 15:10 SW Total Suspended Solids SM20 2540 D 9/10/2014 SW 2 mg/L



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:	City of Kingston Engin Attn: Alan Adin 420 Broadway	eers Office					
	Kingston	NY	12401		PC	*	
Order ID); 124289 Sa	mple Number:	221922				
Sample	Location:	Blank QC					
Date/Tin	ne sample collected:	9/9/2014	17:00	Sample Collect	ted By:		
Date/Tin	ne samples received:	9/9/2014	17:00	Sample Receiv	ed by: Kard	olina	
Sample	Comment:	100 mL buf	fered rinse	water used			
Paramet	ter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, S	ettleable	< 0.1	mL/L	SM20 2540F	9/9/2014	15:10	SW
Total Sus	spended Solids	< 1	mg/L	SM20 2540 D	9/10/2014		SW
Results	Comment:		_				
	W.	26					

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

03-Oct-14

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; S1 = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

Total number of pages in this report, including chain of custody, is _____

SMITH LABO	RATORY			CH	AIN	OF CU	STODY		Login I	Review:	0	
4 Scenic Drive									Amt Di			
Hyde Park, NY	12538-1313 Turnaround Tin	ne: Stand	ard [√]			Copy result	s to	Amt Pa	id:		
Phone: 845-22	Local Health Dept.						Pmt Method:					
Fax: 845-229-6538 ** Date report requested:							Yes 🗌 1	Receipt	Receipt No:			
	CITY OF KINGSTON ss: 420 BROADWAY KINGSTON, NY 12401			Clien	t Email:	_aadin@	kingston-ny.	gov Lo	ocation:			
LAB USE ONLY	CLIENT: COMPLI	ETE THE	SAME	LE IN	FORM	ATION IN	THE SPAC	E PROVIDED BELOW		LA	B USE OF	NLY
Order ID No:	Sample Identification &		((Check O	ne)	Treatment	Date/Time	Analysis	Container &	læd	Sample	Pres.
Sample No:	Sample Point	Marrix	Grab	Comp # hrs	First Draw	Type & Residual	Sampled 9.9.14	Requested	Preservative	Y/N	Temp, Deg C	et Lab Y/N
22191496	SITE #1	sw	X				11:424	SS TSS	1-1LPLAS 1-1/2 L PLAS	A	10.2	X
221915	SITE #2	sw	X				11 55A	SS TSS	1-ILPLAS 1-I/2 L PLAS	4	12:12.8	
221916	SITE #3	SW	X				12.02P	SS TSS	1-1LPLAS 1-1/2 L PLAS		8.4.8	
221917	SITE #4	SW	X				12.100	SS TSS	I-1LPLAS I-1/2 L PLAS		7501	
221918	SITE #5	sw	X				12:18 P	SS TSS	I-ILPLAS I-I/2 L PLAS		8.9.5	
22/919	SITE #6	sw	Х				12:079	SS TSS	I-ILPLAS I-1/2 L PLAS		7.8	
331900	SITE #7	sw	Х				12:50P	SS TSS	I-ILPLAS I-1/2 L PLAS		19.2	
29192L	DUPLICATE SITE # 7	sw	Х				12:507	TSS TSS	1-1LPLAS 1-1/2 L PLAS	9	18.1 Jule	
231921	QC Blank			121								
my knowledge. I a	e) A LAN ADIN Iso affirm that I am responsible for payment, i	inless other	eayment a	arrangeme	ants are ap	proved in adv	ance by Smith I	I hereby affirm that the in	formation above is tr	we and co	mplete to th	e best of
	d By: ALAW ADIN			Receive		1/1	nto		Date:	til	Time:	130
Sample Relinquishe			_	Receive	ed at Lab	Ву:		V	Date:	114	Time:	100
Sample(s) received Thermal Preservati	met the following requirements				Comm	ents:						
Chemical Preserva					-							
Correct Bottle Typ					-					-	-	
Other					Smith I a	horatory Chai	n of Custody Re	ev 4 2/14 Data Rev	view: Mgr	0	Date 9	172

EVENT # 24 DRY WEATHER

Attach nt 1 - Sampling Event Summary Sheet

Initials:

Date: 919 14 Page __ of

Sampling Team:

Weather:

CLEAR - COCL

Temperature:

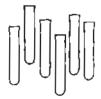
HIGH 50°

Direction of Flow:

STHRET IN WESTERY.

HIGH TIDE 10:57A.

Sampling Location	Time	Field Parameter	Physical Observations	Comments				
SITE #1: MID-RONDOUT CREEK APPROX. 250 YOS UPSTREAM OF WILBUR	LATITUDE: 41-90 6 LONGITUDE: 74 004	DO 8.1 mg/L. temperature 20.7 c	Grease NONE Floatables None	TIDE: M- WESTERLY OF FLENEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEELIEY AND RECYCLING BUSINESS				
AVE. OUTFALL	10:204	tomporator o	Odors rone					
SITE #2: MID-ROWAUT CREEK - UPSTREAM	LAT: 41 9/2 LONG: 73 942	DO 87 mg/L	Grease none	TIDE: 11 - WESTERLY OF ISLAND DOCK				
OF BLOCK PARK	10:30 A	temperature 19.6°C	Odors None	CAUSEWAY CULVERTS				
SITE #3: MID-	LAT: 41.915	DO 89 mg/L	Grease Wang	TIDE: 14 - WESTERLY				
RONONT CREEK APPROX, 150 YOS UPSTREAM OF OLD	LONG: -73 98-4	temperature 198°C	25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEAR					
BRIDGE	10-39A+		Odors now	ISLAND DOCK BULKHEAD				
SITE #6: MID- RONDOUT CREEK	LAT: 41.915 LONG: 73.981	DO 8.8 mg/L	Grease none	TIDE: 111 - WESTER BY 50 YDS SOUTHERLY OF CLEARWATER				
UNDER NEW BRIDGE		temperature 19.5°C	Floatables were	MAINTENANCE SHED, DOUBLE SLIDE DOORS				
	- 10:44 A		Odors none					
SITE #4: MID- RONDOUT CREEK	LAT: 41,913	DO 8.7 ~9/2.	Grease Morre	50 yos southern of STEELHOUSE				
APPROX. 200 YDS DOWNSTREAM OF	LON 6:73474	temperature ZO, C°C	Floatables none	RESTAURANT COVER PATIO				
NEW BRIDGE	10:494.		Odors none					
RONDONT CREEK	LAT: 41.922 LONG: -73.969	DO 8.5 mg/L	Grease Mane	SD YDS SOUTHERLY GAS LINE				
UPSTREAM OF BLOCK		temperature 20,2°C	Floatables MINEV	CROSSING WARNIN IGN, water more				
PARK	10:54A		Odors none	siegetative are s/ brown/twind				
SITE # 7: MID - RONDONT CREEK APPROX.	LAT: 41885 LONE: 74.030	DO 6.8 mg/L.	Grease none	FLOW: ALWAYS EASTER OWN STREAM) - LOCATION NOT TIDAL. STRAIGH T FROM WESTERLY				
3/4 MILE UPSTREAM OF EDDYVILLE DAM AT		temperature 196 C	Floatables nane	END BOAT LAVNCH				
NYSDEL BOAT LAUNCH			Odors Nave					
DIMILE A	LAT: LONG: SITE#7	DO	Grease	SITE#7.				
DVPLI CATY		temperature	Floatables					
	11:25A.		Odors					



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6538

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

124632

Sample Number:

222755 Site #1, grab

Sample Location: Sample Comment:

FC rec'd at 9.8 deg C.

Date/Time sample collected:

9/19/2014

10:20

Collected By:

AA Amy Jo SS

Date/Time sample received: Date/Time sample analyzed:

9/19/2014 9/19/2014

12:40 15:15 Received by: Tech:

Parameter

Test Result*

Units

Test Method

Fecal Coliform

10

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

to Manager, ELAP Lab ID #10924 Reviewed by: L

23-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

124632

Sample Number:

222756

Sample Location:

Site #2, grab

Sample Comment:

FC rec'd at 9.4 deg C.

Date/Time sample collected:

9/19/2014

10:30

Collected By:

Date/Time sample received:

9/19/2014

12:40

Received by:

Amy Jo

Date/Time sample analyzed:

9/19/2014

15:15

Tech: SŞ

Test Method

Parameter Fecal Coliform Test Result* 20

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

124632

Sample Number:

222757

Sample Location:

Site #3, grab

Sample Comment:

FC rec'd at 7.4 deg C.

Date/Time sample collected:

9/19/2014 10:39

Collected By:

Date/Time sample received:

12:40

9/19/2014 9/19/2014 Date/Time sample analyzed:

15:15

Received by: Amy Jo

Tech: SS

AA

Parameter

Test Result*

Units

Test Method

Fecal Coliform

350

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by, Lab Manager, ELAP Lab ID #10924

23-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston NY 12401

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

124632

Sample Number:

222758

Sample Location:

Site #4, grab

Sample Comment:

FC rec'd at 9,2 deg C.

Date/Time sample collected:

9/19/2014

10:49

Collected By:

PO #

Date/Time sample received:

9/19/2014

12:40

Received by:

Amy Jo SS

Date/Time sample analyzed:

9/19/2014

15:15

Tech:

Test Method

Parameter Fecal Coliform Test Result* 10

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: L .≰b Maṇager, ELAP Lab ID #10924 23-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

124632

Sample Number:

222759

Sample Location:

Site #5, grab FC rec'd at 9.4 deg C.

Sample Comment:

Date/Time sample collected:

9/19/2014

10:54

Collected By:

AA Received by: Amy Jo

Date/Time sample received: Date/Time sample analyzed: 9/19/2014 9/19/2014 12:40 15:15

Tech:

SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

40

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units

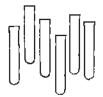
Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

25-Sep-14

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This less report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

The total number of pages in this report is 1 (one).



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Sample Type:

Rondout Creek Surface Water

Order comment:

Order ID:

124632

Sample Number:

222760

Sample Location:

Site #6, grab

Sample Comment:

FC rec'd at 7.9 deg C.

9/19/2014

10:44

Collected By:

AA Received by: Amy Jo

Date/Time sample received: Date/Time sample analyzed:

Date/Time sample collected:

9/19/2014 9/19/2014 12:40 15:15

Tech: \$5

Test Method

Parameter Fecal Coliform Test Result* 20

Units CFU/100mL

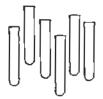
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

124632

Sample Number:

222761

Sample Location:

Site #7, grab

Sample Comment:

FC rec'd at 11.7 deg C.

Date/Time sample collected:

9/19/2014

15:15

Collected By:

11:28

AA

Date/Time sample received:

9/19/2014 12:40

Received by:

Amy Jo SS

Date/Time sample analyzed:

9/19/2014

Tech:

Test Method

Parameter Fecal Coliform Test Result* < 10

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

23-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY

PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

124632

Sample Number:

222762

Sample Location:

Duplicate, grab

Sample Comment:

FC rec'd at 15.4 deg C.

Date/Time sample collected:

11:28

Collected By:

12401

AA

Date/Time sample received:

9/19/2014

12:40 Received by:

Amy Jo

Date/Time sample analyzed:

9/19/2014

9/19/2014

15:15

Tech: SS

Test Method

Parameter Fecal Coliform Test Result* < 10

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

12401

PO #

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

124632

Sample Number:

Sample Location:

222763 Blank-QC

Sample Comment:

100 mL buffered rinse water used

Date/Time sample collected:

9/19/2014 15:15 Collected By:

Date/Time sample received:

Date/Time sample analyzed:

9/19/2014 15:15 15:15 9/19/2014

Received by: Tech:

Amy Jo SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 1

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

NY Kingston

PO#

Sample Type: Client Project Name: Surface Water Rondout Creek

12401

Order comment:

Order ID: 124632 Sample Number:

Sample Location:

Site #1, grab

Date/Time sample collected:

9/19/2014 10:20

Sample Collected By:

AΑ

Date/Time samples received:

9/19/2014 12:40

Sample Received by:

Amy Jo

Sample Comment:

FC rec'd at 9.8 deg C.

Parameter: Solids, Settleable Test Result Unite < 0.1 mL/L

Test Method SM20 2540F

Test Date Test Time 9/19/2014 13:50

Tech** SW

Total Suspended Solids

a mg/L

222756

ma/L

SM20 2540 D

9/24/2014

SW

Order ID: 124632

Sample Location:

Site #2, grab

Sample Number:

Date/Time sample collected: Date/Time samples received: 9/19/2014 10:30 9/19/2014 12:40 Sample Collected By: Sample Received by:

AΑ Army Jo

Sample Comment:

Sample Location:

FC rec'd at 9.4 deg C.

Parameter: Solids, Settleable Total Suspended Solids Test Result Units mL/L < 0.1

Test Method SM20 2540F SM20 2540 D

Test Date Test Time 9/19/2014 9/24/2014

Tech** 13:50 SW SW

Order ID:

124632

222757 Sample Number:

Site #3, grab

Date/Time sample collected: Date/Time samples received:

9/19/2014 10:39 9/19/2014 12:40

Sample Collected By: Sample Received by:

Sample Comment: FC rec'd at 7.4 deg C.

Parameter:

Test Result Unite

Test Method SM20 2540E Amy Jo

AΑ

Solids, Settleable Total Suspended Solids < 0.1 mL/L mg/L SM20 2540 D

9/19/2014 9/24/2014

Test Date Test Time Tech** SW 13:50 SW

Order ID:

124632

Date/Time samples received:

Sample Number: 222758

Site #4, grab Date/Time sample collected:

9/19/2014 10:49 9/19/2014 12:40 Sample Collected By: Sample Received by:

AA Amy Jo

Sample Comment:

Sample Location:

FC rec'd at 9.2 deg C.

Parameter: Solids, Settleable Total Suspended Solids

Test Result Units < 0.1mL/L 8 mg/L

Test Method SM20 2540F SM20 2540 D

Test Date Test Time 9/19/2014 9/24/2014

Tech** 13:50 SW SW



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401

PO#

Order ID: 124632 Sample Number: 222759

Sample Location: Site #5, grab

Date/Time sample collected: 9/19/2014 10:54 Sample Collected By: AA

Date/Time samples received: 9/19/2014 12:40 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 9.4 deg C.

Parameter: Test Result Units Test Method Test Date Test Time Tech** Solids, Settleable < 0.1 mL/L SM20 2540F 9/19/2014 13:50 SW Total Suspended Solids mg/L SM20 2540 D 9/24/2014 SW

Order ID: 124632 Sample Number: 222760

Sample Location: Site #6, grab

Date/Time sample collected: 9/19/2014 10:44 Sample Collected By: AA

Date/Time samples received: 9/19/2014 12:40 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 7.9 deg C.

Parameter: **Test Result** Units Test Method Test Date Test Time Tech** Solids, Settleable < 0.1 mL/L SM20 2540F 9/19/2014 13:50 SW Total Suspended Solids SM20 2540 D 9/24/2014 mg/L SW

Order ID: 124632 Sample Number: 222761

Sample Location: Site #7, grab

Date/Time sample collected: 9/19/2014 11:28 Sample Collected By: AA

Date/Time samples received: 9/19/2014 12:40 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 11.7 deg C.

Parameter: Test Result Units Test Method Test Date Test Time Tech** Solids, Settleable < 0.1 mL/L SM20 2540F 9/19/2014 13:50 SW Total Suspended Solids SM20 2540 D 9/24/2014 SW 8 mg/L

Order ID: 124632 Sample Number: 222762

Sample Location: Duplicate, grab

Date/Time sample collected: 9/19/2014 11:28 Sample Collected By: AA

Date/Time samples received: 9/19/2014 12:40 Sample Received by: Amy Jo

Sample Comment: FC rec'd at 15.4 deg C.

Parameter: Test Date Test Time Tech** Test Result Unite Test Method Solids, Settleable < 0.1 mL/L SM20 2540F 9/19/2014 13:50 SW Total Suspended Solids mg/L SM20 2540 D 9/24/2014 SW



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Order ID: 124632 Sample Number:

Sample Location:

Blank-QC

9/19/2014

Date/Time sample collected: Date/Time samples received: 9/19/2014 15:15

Sample Collected By: Sample Received by:

Amy Jo

9/24/2014

Sample Comment:

100 mL buffered rinse water used

mg/L

15:15

222763

Parameter: Test Result Units Solids, Settleable < 0.1 mL/L

Test Method SM20 2540F SM20 2540 D

Test Date Test Time Tech** 9/19/2014 13:50

SW SW

Total Suspended Solids Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

22-Oct-14

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units: TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; "*ELAP ID is listed for sub-contract laboratory

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report periains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

Total number of pages in this report, including chain of custody, is

CMITHIAD	OPATORY			CH	AIN	OF CU	STODY		Login	Review:	0	2		
SMITH LABORATORY 4 Scenic Drive									Amt D					
	Y 12538-1313 Turnaround T	ime: Stand	ard 🗸	7	•		Copy result	ts to	Amt Pa	uid:				
Phone: 845-229-6536 RUSH (Rush surcharge applies)											Pmt Method:			
Fax: 845-2	_ `			,	Yes No √					Receipt No:				
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	CITY OF KINGSTON			Clien	t Email:	:_aadin@	kingston-ny.	Project/Fac .gov La ON PWS Fed I	ocation:					
AB USE ONL	KINGSTON, NY 12401		SAMI					E PROVIDED BELOW			B USE O			
Order ID No:	T CEIENT. COM	DE LE TUE				THE REAL PROPERTY.	THE STAC	ETROVIDED BELOW		-	I Same			
A de more many of high	Sample Identification &		(0	Check O	ne)	Treatment	Date/Time	Analysis	Container &	Iced	Sample	Pres.		
124636 Sample No:		Metrix	Grab	Comp # hrs	First Draw	Type & Residual	9 19 14	Requested	Preservative	Y/N	Temp, Deg-C	Y/N		
223755	SITE #1	sw	X				10.20A	SS TSS	1-1LPLAS 1-1/2 L PLAS	7	16.46	7		
756		SW	X				10:304	SS TSS	1-ILPLAS 1-I/2 L PLAS		12.1/14			
757	SITE #3	sw	X				10.39A	SS TSS	1-ILPLAS 1-1/2 L PLAS		13.9/21			
75%	SITE #4	sw	X				10:49A	SS TSS	I-ILPLAS I-1/2 L PLAS		16.36			
759	SITE #5	sw	X				10:54A	SS TSS	1-ILPLAS 1-1/2 L PLAS		19.9			
760	SITE #6	sw	Х				10:44A	SS TSS	1-1LPLAS 1-1/2 L PLAS		8940			
761	SITE #7	sw	X				11:28 A	SS TSS	I-ILPLAS I-1/2 L PLAS		180/198			
1767	DUPLICATE	sw	X				11:28A	SS TSS	1-ILPLAS 1-I/2 L PLAS	1	16.5/12	7]		
	Lab Black													
my knowledge.	ume) A LAN AD IN [also affirm that I am responsible for paymen	it, unless other p	payment	arrangeme	Title) E	VG IN EERI	Vance by Smith I	I hereby affirm that the in	formation above is to	rue and co	emplete to th	e best of		
Samole Relinguis	hed By: ALAN ADIN			Receiv	ed By:				Date:		Time:			
	hed By:			Receiv	ed at I ah	By:	AN-		Date: 9//		Time: 15	240		
				1,440,1										
The same of the sa	red met the following requirements			1	Comm	ents:						-		
Thermal Preserv	ation: NA (Yes No		-	1										
Chemical Preser	vation: NA Yes No													
Correct Bottle T	ype Yes No													
Other									X	7	_ 10	0/10		
					Smith La	sboratory Cha	in of Custody Re	ev. 4, 2/14 Data Rev	view: Mgr	-	Date_	0115		

nt 1 - Sampling Event Summary Sheet Attach:

Initials: Scheffel. Date: 9-24-14

Page ___ of ___

Sampling Team:

Weather:

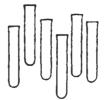
portly suring IN WESTERLY.

Temperature:

Direction of Flow:

4164 TIDE 2:22P

Sampling Location	Time	Field Parameter	Physical Observations					
SITE #1: MID-RONDOUT CREEK APPROX. 250 YOS	LATINOE: 41906	DO 97 mg/L	Grease NONE	TIDE: N. WSTUREY				
DOST REAM OF WILBUR	LONGITUDE: 74.004	temperature 21.3°C	Floatables NOM:	APPROX.15 YDS WESTERLY OF FLENEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEELIEY AND RECYCLING BUSINESS				
AVE. OUT PACE	1000		Odors NONE					
SITE #2: MID-RONCOUT		DO 10.1 mg/L	Grease NONE	50 YDS SOUTHERLY OF ISLAND DOCK				
OF BLOCK PARK	LONG: 73.49 Z	temperature 20-7°C	Floatables NONE	CAUSEWAY CULVERTS				
	11120		Odors NONE					
SITE #3: MID- RONDOUT CREEK	LAT: 41.915	DO 9.4 mg/L	Grease NOME	TIDE: 10 WESTERY				
APPROX. 150 YOS UPSTREAM OF OLD	LONG: 73.954	temperature 20.3	Floatables NONE	25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEA				
BRIDGE	117PM		Odors NONE	ISCAUD DOCK BULKHEAD				
SITE #6; MID- RONDOUT CREEK	LAT: 41.915 LONG: 73981 = 1:22p	DO 8.3 mg/L.	Grease NOME	50 YDS SOUTHERLY OF CLEAR WATER				
INDER NEW BRIDGE		temperature 20.4%	Floatables NONE	MAINTENANCE SHED, DOUBLE SLIDE DOORS				
			Odors NONE					
0	LAT: 41.913 LONG: 73.479 1.24P	DO 8.6 mg/c.	Grease NONE	TIDE: 110 WESTERLY 50 YDS SOUTHERLY OF STEELHOUSE RESTAURANT COURSED PATIO				
APPROX. ZOO YDS		temperature 20.4°C	Floatables MINIMAL					
DOWNSTREAM OF NEW BRIDGE			Odors None	MINOR VEGETATIVE MATTER.				
SITE #5: MID-	LAT: 41922 LONG: 73 964	DO 86 mg/L	Grease NONE	TIDE: IN MESTERLY				
		temperature21.1°C	Floatables minimal	50 YDS SOUTHERLY OF GAS LINE CROSSING WARNING SIGN				
CONFLIENCE			Odors NONE.	regetative natter				
0.4.44.00 4.000.00 4300.00	LAT: 41885	DO 7.6 mg/2	Conner 1 1501AC	FLOW: ALWAYS EASTERLY (DOWN STREAM) - COLATION MOTTIDAL. STRAIGHT OUT FROM WESTERLY				
DOYVILLE DAM AT		temperature 20.8%		END BOAT LAVNCH				
YSDEL BOAT LAUNCH			Odors NOVE					
	LAT: 41913	DO 9.7 mg/c	Grease NONE					
	DNG: 73879	temperature 21.3°C	Floatables MUVIE	SITE #1				
SITEAL	1000		Odors NONE	11157				



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 **HYDE PARK, NEW YORK 12538** (845) 229-6536

CERTIFICATE OF ANALYSIS

Client:

City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

124763

Sample Number:

223118

Sample Location:

Site #1, grab

Sample Comment:

FC rec'd at 7.0 deg C.

Date/Time sample collected:

9/24/2014

9/24/2014

13:00

Collected By:

AA Received by: Amy Jo

Date/Time sample received: Date/Time sample analyzed: 9/24/2014 15:00 17:20

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

10

CFU/100mL

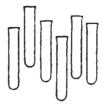
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID: 124763

Sample Number:

223119

Sample Location:

Site #2, grab

Sample Comment:

FC rec'd at 8.5 deg C.

Date/Time sample collected:

9/24/2014 13:12

12

Collected By: AA

Date/Time sample received: Date/Time sample analyzed:

9/24/2014

9/24/2014

15:00

17:20

Received by: Amy Jo

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 10

CFU/100mL

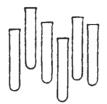
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

30-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

PO# 12401 Kingston NY

Client Project Name:

Rondout Creek Surface Water

Sample Type:

Order comment: Order ID: 124763

223120 Sample Number:

Sample Location: Site #3, grab

FC rec'd at 6.3 deg C. Sample Comment:

9/24/2014 13:17 Collected By: Date/Time sample collected: 9/24/2014 15:00 Received by: Amy Jo Date/Time sample received: 9/24/2014 17:20 Tech: SS Date/Time sample analyzed:

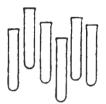
Test Result* Units **Test Method** Parameter SM 18 9222D Fecal Coliform 40 CFU/100mL

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Oct-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston PO# NY 12401

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

124763

Sample Number:

223121

Sample Location:

Site #4, grab

Sample Comment:

FC rec'd at 9.2 deg C.

Date/Time sample collected:

Collected By:

9/24/2014 13:24

Received by: Amy Jo

AA

Date/Time sample received: Date/Time sample analyzed: 9/24/2014

15:00

Tech: SS

9/24/2014 17:20

Units

Test Method

Fecal Coliform

Parameter

Test Result* 30

CFU/100mL

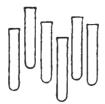
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 **HYDE PARK, NEW YORK 12538** (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

PO# Kingston NY 12401

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

124763

Sample Number:

223122

Sample Location:

Site #5, grab

Sample Comment:

FC rec'd at 12.6 deg C.

Date/Time sample collected:

Collected By:

9/24/2014 13:30

9/24/2014 9/24/2014

Amy Jo

AA

Date/Time sample received: Date/Time sample analyzed: 15:00 17:20 Received by: Tech:

Parameter

Test Result*

Units

Test Method

Fecal Coliform

10

CFU/100mL

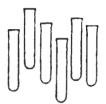
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Mapager, ELAP Lab ID #10924

30-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID: 124763

Sample Number:

223123

Sample Location:

Site #6, grab

Sample Comment:

FC rec'd at 7.3 deg C.

Date/Time sample collected:

9/24/2014 13:22

Collected

Collected By:

Date/Time sample received:

15:00

Received by: Amy Jo

Date/Time sample analyzed:

9/24/2014 9/24/2014

17:20

Tech: SS

AA

PO#

Parameter

Test Result*

Units

Test Method

Fecal Coliform

20

CFU/100mL

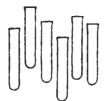
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

30-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name: Rondout Creek
Sample Type: Surface Water

Order comment:

Order ID: 124763

Sample Number: 223124
Sample Location: Site #7, grab

Sample Comment: FC rec'd at 12.8 deg C.

Date/Time sample collected:9/24/201414:05Collected By:AADate/Time sample received:9/24/201415:00Received by:Amy JoDate/Time sample analyzed:9/24/201417:20Tech:SS

 Parameter
 Test Result*
 Units
 Test Method

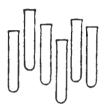
 Fecal Coliform
 < 10</td>
 CFU/100mL
 SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

30-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

12401

PO#

Client Project Name:

Rondout Creek

NY

Sample Type:

Surface Water

Order comment:

Order ID:

124763

Sample Number:

223125

Sample Location: Sample Comment: Duplicate, Site #1, grab

Date/Time sample collected:

FC rec'd at 8.4 deg C.

9/24/2014

Date/Time sample received:

9/24/2014

13:00

Collected By:

Received by: Amy Jo

Date/Time sample analyzed:

9/24/2014

15:00 17:20

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

10

CFU/100mL

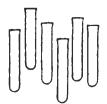
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

30-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

12401 NY

PO#

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

124763

Sample Number:

223126

Sample Location:

Blank QC

Sample Comment:

100 mL buffered rinse water used

Date/Time sample collected:

9/24/2014

17:20 Collected By:

AA

Date/Time sample received:

9/24/2014

17:20

Received by: Amy Jo SS

Date/Time sample analyzed:

9/24/2014 17:20 Tech:

Test Method

Parameter

Test Result*

Units

Fecal Coliform

< 1

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-Sep-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

12401

PO#

Sample Type:

Client Project Name:

Surface Water Rondout Creek

Order comment:

Order ID: 124763 Sample Number: 223118

Sample Location:

Site #1, grab

Date/Time sample collected:

9/24/2014 13:00

Sample Collected By:

AA

Date/Time samples received:

9/24/2014 15:00

Sample Received by:

Amy Jo

Sample Comment:

FC rec'd at 7.0 deg C.

Parameter:

Test Result Unite **Test Method**

Test Date Test Time

Tech**

16:20

Solids, Settleable Total Suspended Solids < 0.1 mL/L

mg/L

SM20 2540F SM20 2540 D 9/24/2014 9/26/2014 SW SW

124763 Order ID:

223119 Sample Number:

4

Sample Location:

Site #2, grab 9/24/2014 13:12

Date/Time sample collected:

9/24/2014 15:00

Sample Collected By:

Sample Received by:

AΑ Amy Jo

Date/Time samples received: Sample Comment:

FC rec'd at 8.5 deg C.

Parameter: Solids, Settleable Test Result Units Test Method

Test Date Test Time Tech** 16:20

Total Suspended Solids

< 0.1 mU/L mg/L

SM20 2540F SM20 2540 D 9/24/2014 9/26/2014 SW SW

Order ID: 124763

Sample Location:

Sample Number: 223120 Site #3, grab

Date/Time sample collected:

9/24/2014 13:17

Sample Collected By:

AA

Date/Time samples received:

9/24/2014 15:00

Sample Received by: Amy Jo

Sample Comment:

Parameter:

FC rec'd at 6.3 deg C.

Test Method

Test Date Test Time

Solids, Settleable Total Suspended Solids Test Result Units mL/L < 0.17

mg/L

SM20 2540F SM20 2540 D 9/24/2014 9/26/2014 16:20 SW SW

Tech**

Order ID: 124763

Date/Time samples received:

Sample Number: 223121

Sample Location: Date/Time sample collected: Site #4, grab

9/24/2014 13:24 9/24/2014 15:00 Sample Collected By: Sample Received by:

AA Amy Jo

Sample Comment:

FC rec'd at 9.2 deg C.

Parameter: Solids, Settleable Test Result Units < 0.1 mL/L **Test Method** SM20 2540F

Test Date Test Time 9/24/2014

Tech** 16:20 SW SW

Total Suspended Solids

mg/L

SM20 2540 D

9/26/2014



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 **HYDE PARK, NEW YORK 12538** (845) 229-8536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Cllent:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Order ID: 124763 Sample Number: 223122

Sample Location:

Site #5, grab

Date/Time sample collected: Date/Time samples received: 9/24/2014 13:30 9/24/2014 15:00 Sample Collected By: AΑ Sample Received by: Amy Jo

Sample Comment:

FC rec'd at 12.6 deg C.

Parameter: Solids, Settleable Total Suspended Solids **Test Result** Units < 0.1 mL/L 8 mg/L Test Method SM20 2540F SM20 2540 D

Test Date Test Time Tech** 9/24/2014 16:20

SW SW

Order ID: 124763 Sample Number: 223123

Sample Location: Site #6, grab

Date/Time sample collected: Date/Time samples received:

9/24/2014 13:22 9/24/2014 15:00 Sample Collected By: AA Sample Received by: Amy Jo

Sample Comment:

FC rec'd at 7.3 deg C.

Parameter: Solids, Settleable Total Suspended Solids Test Result Units < 0.1 mL/L mg/L

Test Method SM20 2540F SM20 2540 D

Test Date Test Time 9/24/2014 9/26/2014

9/26/2014

Tech** 16:20 SW SW

223124 Order ID: 124763 Sample Number:

Sample Location:

Site #7, grab

Test Result

Date/Time sample collected: Date/Time samples received: 9/24/2014 14:05 9/24/2014 15:00 Sample Collected By:

AΑ Amy Jo

Sample Comment:

Sample Received by:

FC rec'd at 12.8 deg C.

Units

Parameter: Solids, Settleable Total Suspended Solids

< 0.1 mL/L 3 mg/L **Test Method** SM20 2540F SM20 2540 D

Test Date Test Time 9/24/2014 9/26/2014

Tech** SW 16:20 SW

223125 Order ID: 124763 Sample Number: Sample Location: Duplicate, Site #1, grab

Date/Time sample collected:

9/24/2014 13:00 9/24/2014 15:00 Sample Collected By:

AA

Date/Time samples received: Sample Comment:

Sample Received by:

Amy Jo

Parameter:

FC rec'd at 8.4 deg C.

Test Method SM20 2540F

Test Date Test Time 9/24/2014

Tech** 16:20 SW

Solids, Settleable Total Suspended Solids Test Result Units < 0.1 mL/L 3 mg/L

SM20 2540 D

9/26/2014

SW



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-8538

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston

12401 NY

PO#

Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

22-Oct-14

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

Total number of pages in this report, including chain of custody, is ______

SMITH LABORATORY 4 Scenic Drive Hyde Park, NY 12538-1313 Phone: 845-229-6536 RUSH (Rush surcharge applie) Fax: 845-229-6538 ** Date report requested: Client Name:CITY OF KINGSTON Mailing Address: 420 BROADWAY KINGSTON, NY 12401					nt Phone	No: _845- :aadin@	kingston-ny.	Login Review: Amt Due: Amt Paid: Pmt Method: Receipt No: lity Name: _RONDOUT CREEK cation:				
LAB USE ONLY	_		SAMI	•	-	_		E PROVIDED BELOW			B USE O	
Order ID No:	Sample Identification &			Check O		Treatment	Date/Time	Analysis	Container &	lced	Sample	Pres.
124763 Sample No:	Sample Point	Matrix	Grab		First Draw	Type & Residual	9.24 14	Requested	Preservative	Y/N	Temp, Deg C	ar Lab Y/N
2231184	SITE #1	sw	Х				1:000	SS TSS	1-1LPLAS 1-1/2 L PLAS	4	12.5/	N
11191	SITE #2	sw	Х				1:12P	SS TSS	1-1LPLAS 1-1/2 L PLAS		11.2/6-1	1
120	SITE #3	sw	Х				1.179	SS TSS	I-ILPLAS I-I/2 L PLAS		9.6/12.7	
121	SITE #4	sw	Х				1:249	SS TSS	I-ILPLAS I-I/2 L PLAS		11.1/13	
122	SITE #5	sw	Х				1:30P	SS TSS	I-ILPLAS I-I/2 L PLAS		13.1/1	
123	SITE #6	sw	Х				1:220	SS TSS	I-ILPLAS I-I/2 L PLAS		12/18	
124	SITE #7	SW	х				2:05p	SS TSS	1-1LPLAS 1-1/2 L PLAS		164/ W.d	
125	DUPLICATE SINE #1	sw	х				1:00 P	SS TSS	I-ILPLAS I-I/2 L PLAS	1	10.9/6.4	
my knowledge. I al Sampte Relinquishe	e) ALAN ADIN Iso affirm that I am responsible for p			arrangeme Receive	ents are ap	proved in adv	ance by Smith I	H - I hereby affirm that the in aboratory.	formation above is to Date: Date:		Time:	
Sample(s) received Thermal Preservati Chemical Preservat Correct Bottle Type Other	tion: NA Yes No				Comm	ents:	n of Custody Re	ev. 4, 2/14 Data Rev	view: Mgr 🌊		Date_(0/16

Login Review:

Initials:

Date: Ocro852 8,2014 Page 1 of 1

Sampling Team:

ALLEW WINCHELL JIMP. RALPHS,

Weather:

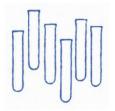
CLEAR

Temperature: 60 F

Direction of Flow:

EAST / DATE TIME

Sampling Location	Time	Field Parameter	Physical Observations	Comments				
SITE #1: MID-ROLDOUT CREEK APPROX. 250 YOS	LATITUDE: Y1. 70L	DO 7.9	Grease Nung	TIDE: 4 4 4 AM				
DOSTREAM OF WILBUR	LONGITUDE: - 74, 004	temperature /8, & c	Floatables Laws	APPROX.15 YDS WESTERLY OF FEELY DO.				
AVE. 001. 1144	,		Odors None	FEENEY AND RECYCLING BUSINESS				
SITE #Z: MID-RENEAUT CREEK - UPSTREAM	LAT: 41.9 (1.	DO 80	Grease No.06	SCYDS SOUTHERLY OF ISLAND DOCK				
of Block Park	LDMG 75 142	temperature /8.2c	Floatables vans	CAUSEWAY CULVERTS				
			Odors NONE	Pak				
SITE #3: MID- RONDOUT CREEK	LAT: 40,914	DO 8. (Grease Ning	25 YDS SOUTHERLY OF OLD SPEEL				
APPROX. 150 YDS UPSTREAM OF OLD	LONG: _ 73_985	temperature 18.3 c	Floatables No No	BOILER PROTRUDING FROM WATER NEAR				
BRIDGE			Odors New	ISLAND DOCK BULKHEAD				
SITE #6: MID- ROMDOUT CREEK	LAT: 4(.918 LONG: 73.98(DO 8.4	Grease North	50 YDS SOUTHERLY OF CLEARWATER				
UNDER NEW BRIDGE		temperature 18.4 %	Floatables Novid	MAINTENANCE SHED, DOUBLE SLIDE DOORS				
		. 4	Odors NONE					
SITE #4: MID- PONDOUT CREEK	LAT: 46.919 LONG: -73.979	DO 8.3	Grease ルとルユ	50 YDS SOUTHERLY OF STEELHOUSE				
APPROX. 200 YDS		temperature 1860	Floatables Non.2	RESTAURANT CONFRED PATIO				
NEW BRIDGE			Odors NONE	De				
REMONT CREEK	LAT: 71,922	DO 8.3	Grease Nong	50 YDS SOUTHERLY OF GAS LINE				
PSTREAM OF BLOCK	LON6: 273,968	temperature 28.5%	Fluatables NONS	CROSSING WARNING SIGN				
PARK			Odors NONE					
SITE # 7: MID -	LAT; LONG:	DO LA	Grease べるしき	FLOW: ALWAYS EASTERLY (DOWN STREAM) - LOCATION NOT TIDAL. STRAIGHT OUT FROM WESTERLY				
DOYVILLE DAM AT		temperature /9,3 %	Floatables NoNE	FAD RAAT I AVAICIA				
DOYVICLE DAM 41			Odors NoNE	10 2 50 AM				
	LAT:	DO .	Grease	5076 #4 10110m				
	LONG;	temperature	Floatables	5000				
(5173 # X)			Odors	(



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

125179

Sample Number:

224112

Sample Location:

Site #1, grab

Sample Comment:

FC rec'd at 8.3 deg C.

Date/Time sample collected:

10/8/2014 9:45

Collected By: RS

Date/Time sample received:

10/8/2014

14:15

Received by: Amy Jo

SS

Date/Time sample analyzed:

10/8/2014

15:20

Tech:

Test Method

Parameter Fecal Coliform Test Result* 100

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Oct-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

PO# NY 12401 Kingston

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID: 125179

Sample Number:

224113

Sample Location:

Site #2. grab

10/8/2014

Sample Comment:

FC rec'd at 9.4 deg C.

Date/Time sample collected:

10/8/2014 9:56 Collected By: RS

10/8/2014 Date/Time sample received:

14:15

Received by: Amy Jo

Date/Time sample analyzed:

15:20

Tech: SS

Test Method

Parameter Fecal Coliform **Test Result*** 190

Units CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Lab Manager, ELAP Lab ID #10924

14-Oct-14



4 SCENIC DRIVE & RT. 9 **HYDE PARK, NEW YORK 12538** (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

PO # Kingston NY 12401

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

Order ID:

125179

Sample Number:

224114

10/8/2014

10/8/2014

Sample Location:

Site #3, grab

Sample Comment:

FC rec'd at 8.8 deg C

Date/Time sample collected:

10:02

Collected By:

Date/Time sample received:

14:15

RS Received by:

Amy Jo

Date/Time sample analyzed:

10/8/2014 15:20

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

80

CFU/100mL

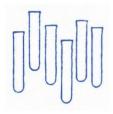
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Oct-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin 420 Broadway

Kingston NY 12401

PO#

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

125179

Sample Number:

224115

Sample Location:

Site #4, grab

10/8/2014

Sample Comment:

FC rec'd at 12.2 deg C

Date/Time sample collected:

10/8/2014 10:

10:10

15:20

Collected By:

: RS

Date/Time sample received: Date/Time sample analyzed:

10/8/2014 14:15

15

Received by: Amy Jo

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

720

CFU/100mL

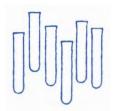
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by, Lab Manager, ELAP Lab ID #10924

14-Oct-14



4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

PO# NY 12401

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID: 125179

Sample Number:

224116

Sample Location:

Site #5, grab

Sample Comment:

FC rec'd at 14.4 deg C

Date/Time sample collected:

10/8/2014 10:18

Date/Time sample received:

14:15

Collected By:

RS Received by: Amy Jo

Date/Time sample analyzed:

10/8/2014 15:20 10/8/2014

SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

640

CFU/100mL

Tech:

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

by: Lab Manager, ELAP Lab ID #10924

14-Oct-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

PO# Kingston NY 12401

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

125179

Sample Number:

224117

Sample Location:

Site #6, grab

Sample Comment:

FC rec'd at 12.1 deg C

Date/Time sample collected: Date/Time sample received:

10/8/2014 10:07

Collected By: RS

Received by: Amy Jo

Date/Time sample analyzed:

10/8/2014 14:15 10/8/2014 15:20

SS

Parameter

Test Result*

Units

Tech:

Test Method

Fecal Coliform

200

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed(by: Lab Manager, ELAP Lab ID #10924

14-Oct-14



4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

PO# Kingston NY 12401

Client Project Name:

Rondout Creek Surface Water

Sample Type: Order comment:

Order ID:

125179

Sample Number:

224118 Site #7, grab

Sample Location: Sample Comment:

FC rec'd at 8.0 deg C

Date/Time sample collected:

10/8/2014 10:50

Date/Time sample received:

10/8/2014 14:15 Collected By:

RS Received by:

Date/Time sample analyzed:

10/8/2014 15:20

Amy Jo

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

10

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Oct-14



4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO #

Client Project Name:

Rondout Creek

Sample Type:

Surface Water

Order comment:

Order ID:

125179

Sample Number:

224119

Sample Location:

Duplicate, Site #4, grab

Sample Comment:

FC rec'd at 13.4 deg C

Date/Time sample collected: Date/Time sample received:

10/8/2014 10:10

10/8/2014 14:15 Collected By:

RS

Date/Time sample analyzed:

10/8/2014 15:20

Received by: Amy Jo

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

1,000

CFU/100mL

SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

ly: Lab Manager, ELAP Lab ID #10924

14-Oct-14



4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO #

Client Project Name:

Rondout Creek

Sample Type:

Water

Order comment:

Order ID:

125179

Sample Number:

224128

Sample Location:

Blank-QC

10/8/2014

10/8/2014

Sample Comment:

100 mL buffered rinse water used

Date/Time sample collected:

15:20

Collected By:

Date/Time sample received: Date/Time sample analyzed: 10/8/2014

15:20 15:20 Received by: Amy Jo

Tech: SS

Parameter

Test Result*

Units

Test Method

Fecal Coliform

< 1

CFU/100mL

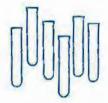
SM 18 9222D

*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Oct-14



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

City of Kingston Engineers Office Client:

> Attn: Alan Adin 420 Broadway

Kingston NY 12401 PO #

Sample Type: Client Project Name: Surface Water Rondout Creek

Order comment:

Order ID: 125179 Sample Number: 224112

Sample Location:

Site #1, grab

Date/Time sample collected: Date/Time samples received: 10/8/2014 9:45 10/8/2014 14:15 Sample Collected By:

RS Sample Received by: Amy Jo

Sample Comment:

FC rec'd at 8.3 deg C.

Parameter: Solids, Settleable Total Suspended Solids Test Result Units < 0.1 mL/L 2 mg/L **Test Method** SM20 2540F SM20 2540 D

Test Date Test Time 10/8/2014 10/13/2014

Tech** 15:15 SW

LM

Order ID: 125179 Sample Number: 224113 Site #2, grab

Sample Location: Date/Time sample collected: Date/Time samples received:

10/8/2014 9:56 10/8/2014 14:15 Sample Collected By: Sample Received by:

RS Amy Jo

Sample Comment:

FC rec'd at 9.4 deg C.

2

mg/L

224114

Parameter: Solids, Settleable Total Suspended Solids Test Result Units < 0.1 mL/L

Test Method SM20 2540F SM20 2540 D

Test Date Test Time 10/8/2014 10/13/2014

Tech** SW 15:15 LM

125179 Order ID: Sample Location:

Sample Number: Site #3, grab

Date/Time sample collected: Date/Time samples received: 10/8/2014 10:02 10/8/2014 14:15

Sample Collected By: Sample Received by:

Sample Comment:

FC rec'd at 8.8 deg C

Parameter: Solids, Settleable **Total Suspended Solids**

Units **Test Result** < 0.1 mL/L mg/L **Test Method** SM20 2540F SM20 2540 D

Test Date Test Time 10/8/2014 10/13/2014

RS

Amy Jo

Tech** 15:15 SW LM

Order ID: Sample Location:

125179

Date/Time sample collected:

Date/Time samples received:

Sample Number: 224115

Site #4, grab

10/B/2014 10:10 10/8/2014 14:15

Sample Collected By: Sample Received by:

R\$ Amy Jo

Sample Comment:

FC rec'd at 12,2 deg C

Parameter: Solids, Settleable Total Suspended Solids Test Result Unite < 0.1 mL/L 6 mg/L **Test Method** SM20 2540F SM20 2540 D

Test Date Test Time 10/B/2014 10/13/2014

Tech** 15:15 SW LM



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 **PO#**

Order ID: 125179 Sample Number: 224116

Sample Location:

Site #5, grab

Date/Time sample collected: Date/Time samples received: 10/8/2014 10:18

10/8/2014 14:15

mg/L

Sample Collected By: Sample Received by:

RS Amy Jo

Sample Comment:

FC rec'd at 14.4 deg C

18

Parsmeter: Solids, Settleable Total Suspended Solids

Units Test Result < 0.1 mL/L

Test Method SM20 2540F SM20 2540 D

Test Date Test Time 10/B/2014 10/13/2014

Tech** 15:15 SW LM

Order ID: 125179 Sample Number: 224117

Sample Location: Date/Time sample collected:

10/8/2014 10:07 10/8/2014 14:15

Site #6, grab

Sample Collected By: Sample Received by:

RS Amy Jo

Date/Time samples received: Sample Comment:

FC rec'd at 12.1 deg C

Parameter: Solids, Settleable Total Suspended Solids

Test Result Units < 0.1 mL/L 5 mg/L **Test Method** SM20 2540F SM20 2540 D

Test Date Test Time 10/8/2014 10/13/2014

Tech** 15:15 SW LM

Order ID: 125179 Sample Number: 224118

Sample Location: Date/Time sample collected: Site #7, grab 10/8/2014 10:50

Date/Time samples received:

10/8/2014 14:15

Sample Collected By: Sample Received by:

RS Amy Jo

Sample Comment:

FC rec'd at 8.0 deg C

Parameter: Solids, Settleable Total Suspended Solids Test Result Unite < 0.1 mL/L mg/L **Test Method** SM20 2540F SM20 2540 D

Test Date Test Time 10/8/2014 15:15 10/13/2014

RS

Amy Jo

Tech** SW LM

Order ID: 125179

Sample Number: 224119

Sample Location:

Duplicate, Site #4, grab

Date/Time sample collected: Date/Time samples received: 10/8/2014 10:10 10/8/2014 14:15 Sample Collected By: Sample Received by:

Sample Comment: FC rec'd at 13.4 deg C

Parameter: Solids, Settleable Total Suspended Solids Test Result Units < 0.1 mL/L 5 mg/L

Test Method SM20 2540F

Test Date Test Time 10/8/2014 10/13/2014

Tech** 15:15 SW

SM20 2540 D

LM



ENVIRONMENTAL TESTING 4 SCENIC DRIVE & RT. 9 HYDE PARK, NEW YORK 12538 (845) 229-6536

CERTIFICATE OF ANALYSIS

Cllent: City of Kingston Engineers Office

> Attn: Alan Adin 420 Broadway

Kingston

NY 12401 PO#

Order ID: 125179 Sample Number: 224128

Sample Location:

Blank-QC

Test Result

Date/Time sample collected:

10/8/2014 15:20 Sample Collected By:

Test Method

Date/Time samples received:

10/8/2014 15:20

Sample Received by:

Amy Jo

Sample Comment:

Parameter:

100 mL buffered rinse water used Unite

Test Date Test Time

Tech** 15:15

Solids, Settleable Total Suspended Solids

SM20 2540F < 0.1 mL/L SM20 2540 D < 1 mg/L

10/8/2014 10/13/2014 SW LM

Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

28-Oct-14

Key: <= less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value: H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; urnho/cm=micromhos per centimeter; V=Value above quantitation range; *ELAP/NELAC does not offer certification for this analyte; **ELAP ID is listed for sub-contract laboratory

Smith Laboratory is approved as an Environmental Testing Loboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.

Total number of pages in this report, including chain of custody, is

SMITH LABOR	RATORY			CH	AIN	OF CU	STODY		Login R	Review:	XM Jai	2	
4 Scenic Drive Hyde Park, NY 12538-1313 Phone: 845-229-6536 Fax: 845-229-6538 Turnaround Time: Standard RUSH (Rush surcharge ** Date report requested:										Amt Due: Amt Paid: Pmt Method: Receipt No:			
	_CITY OF KINGSTO	ON						Project/Fa					
	_ KINGSTON, NY	12401		•	-			ON PWS Fed I	ID No: NY				
Order ID No:	CLIEN	T: COMPLETE THI	1			ATION IN	THE SPAC	E PROVIDED BELOW	1	LA	B USE OF	VLY	
125179 Sample No:	Sample Identific Sample Po		-	Comp # hrs	First Draw	Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	fced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N	
224112 AC	SITE #1	sw	х	7,113	Ман		10/8/14 9:45A	SS TSS	I-ILPLAS I-I/2 L PLAS	Y	20/85	7	
AUITAD	SITE #2	sw	х				10/8/14	SS TSS	1-1LPLAS 1-1/2 L PLAS	1	7420		
	SITE #3	SW	X				10/8/4	SS TSS	I-ILPLAS I-1/2 L PLAS		88/8/0		
	SITE #4	SW	х				19814 1000A	SS TSS	I-ILPLAS I-I/2 L PLAS		11/2		
	SITE #5	sw	X				10/8/14 10:18A	SS TSS	I-ILPLAS I-I/2 L PLAS	1	(0.9)		
	SITE #6	sw	х				10/8/14	SS	1-ILPLAS 1-1/2 L PLAS	1	10/0-		
	SITE #7	sw	Х				10 8/14 10:50A	SS	1-1LPLAS 1-1/2 L PLAS		13.3/9.4		
	DUPLICATE	sw	X				10/8/14	SS TSS	I-ILPLAS I-I/2 L PLAS -		149/124	工	
my knowledge. I als Sample Relinquished	<i>U</i> •	ble for payment, unless other	payment	Receive	Title) ents are ap	proved in adv	ance by Smith I	4 - ~	Date: 10	1/4	Time:		
Sample(s) received Thermal Preservation	met the following requirem	ents			Comm	ents:		-4.1					
Chemical Preservati	~~				-	-				-		_	
Correct Bottle Type	5											,	
Other					Smith 1 -	horstory Chai	in of Custody Re	ry 4 2/14 Data Re	view: Mgr	1	Date O	(27	